10¢

Heath
Elementary
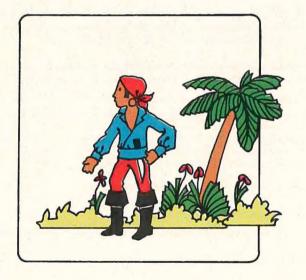# Mathematics
Dilley · Rucker · Jackson

heath elementary mathematics

CLYDE A. DILLEY
WALTER E. RUCKER
ANN E. JACKSON

CONSULTING AUTHORS

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Lexington, Massachusetts   Toronto

About the authors

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About the consulting authors

J. Richard Dennis Senior Specialist in Education at the University of Illinois, has been involved in the development and implementation of mathematics materials since 1963. He has also taught mathematics in public schools.

Gerald R. Rising Professor, Faculty of Educational Studies, State University of New York at Buffalo, teaches mathematics content and curriculum courses. He has also been active on national curriculum development projects.

Mildred B. Griffith Assistant Director of Supervision, Department of Staff Development, Boston Public Schools, is training elementary teachers in the inner city schools.

Max Beberman Late Professor of Education at the University of Illinois and Director of the University of Illinois Committee on School Mathematics, influenced the philosophy of this program and contributed to the early manuscripts.

Contents

Match the objects.
Tell how many in each set.

2   2

3   3

5   5

Equivalent sets   (one) 1

Match the objects.
Tell how many in each set.

3

3

5

5

4

4

Equivalent sets

Name_____

Write how many.

1 2 3 4

3 4 5 6

2 3 4 5

0 1 2 3

3 4 5 6

1 2 3 4

Write how many.

2345   0123

3456   1234

2345   3456

    Counting   Writing numerals

Write how many.

4 5 6 7

6 7 8 9

7 8 9 10

7 8 9 10

6 7 8 9

5 6 7 8

Write how many.

6 7 8 9

7 8 9 10

5 6 7 8

7 8 9 10

6 7 8 9

7 8 9 10

How many in each set?

6 fish

8 cats

4 turtles

7 snakes

How many beads?

Cardinal number   Numerals

9 > 7
is greater than

5 < 6
is less than

< or >?

8 ◯ 10   7 ◯ 8

9 ◯ 8   7 ◯ 5

< or >?

5 ◯ 6   8 ◯ 5

7 ◯ 9   10 ◯ 7

4 ◯ 6   0 ◯ 2   5 ◯ 7

7 ◯ 3   8 ◯ 7   10 ◯ 8

5 ◯ 8   4 ◯ 7   6 ◯ 4

9 ◯ 10   7 ◯ 4   4 ◯ 6

0 ◯ 3   6 ◯ 5   4 ◯ 5

Less than   Greater than

Lunch Room

I am first in line.

I am second.

third

fourth

Match.

second   first   fourth   third

Tickets

third   second   first   fourth

N u m b e r s

U   M   R   N   S   E   B

second   third   sixth   first   seventh   fifth   fourth

Ordinal numbers
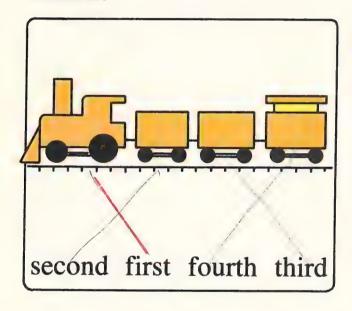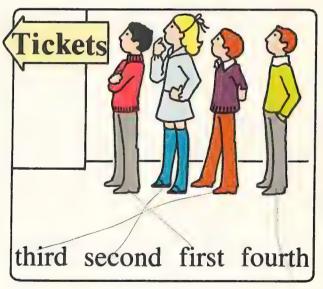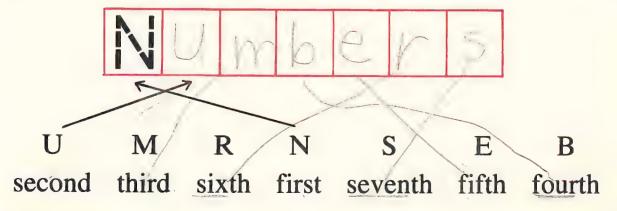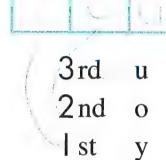
What are the words?
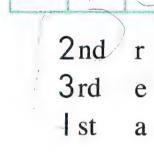
second letter   a
first letter   c
third letter   t

third letter   t
first letter   e
second letter   a

3rd   u
2nd   o
1st   y

2nd   r
3rd   e
1st   a

1st   a
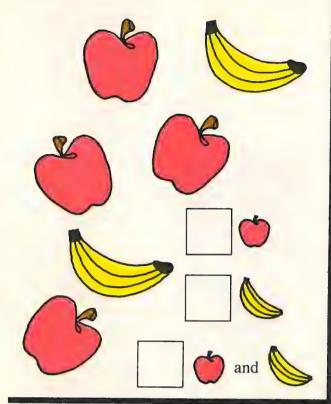
4th   r
1st   s
3rd   a
5th   t
2nd   m
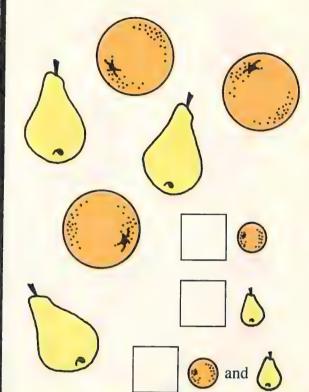
4th   l
3rd   i
1st   c
5th   d
2nd   h
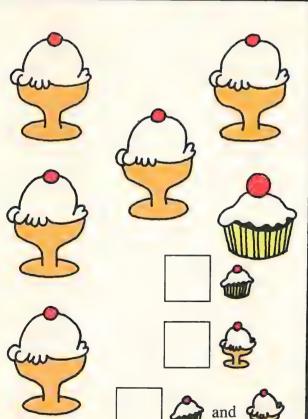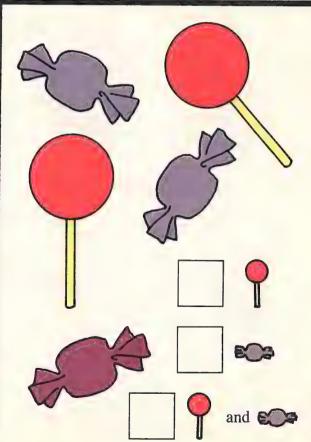
Ordinal numbers

Count.
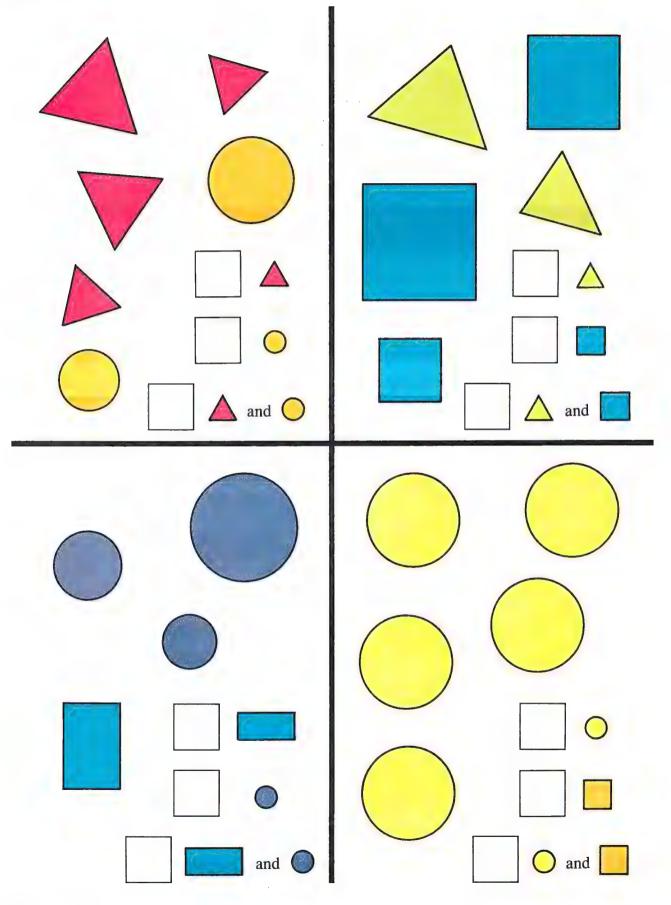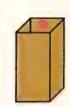
and

and

and

and

Count.

and

and

and

and

Name_____

Fill in each □.

Put in	Put in	How many in all?
3	1 more	4

Put in	Put in	How many in all?
3	2 more	□

4 plus 1 equals □

2 plus 4 equals □

Fill in each ▢.

3	+	3	=	6
	plus		equals	

| 1 | + | 5 | = | 6 |

| 2 | + | 2 | = | 4 |

| 2 | + | 3 | = | 5 |

Introduction of + and =

I live 4 blocks from school.
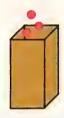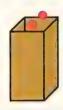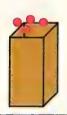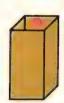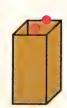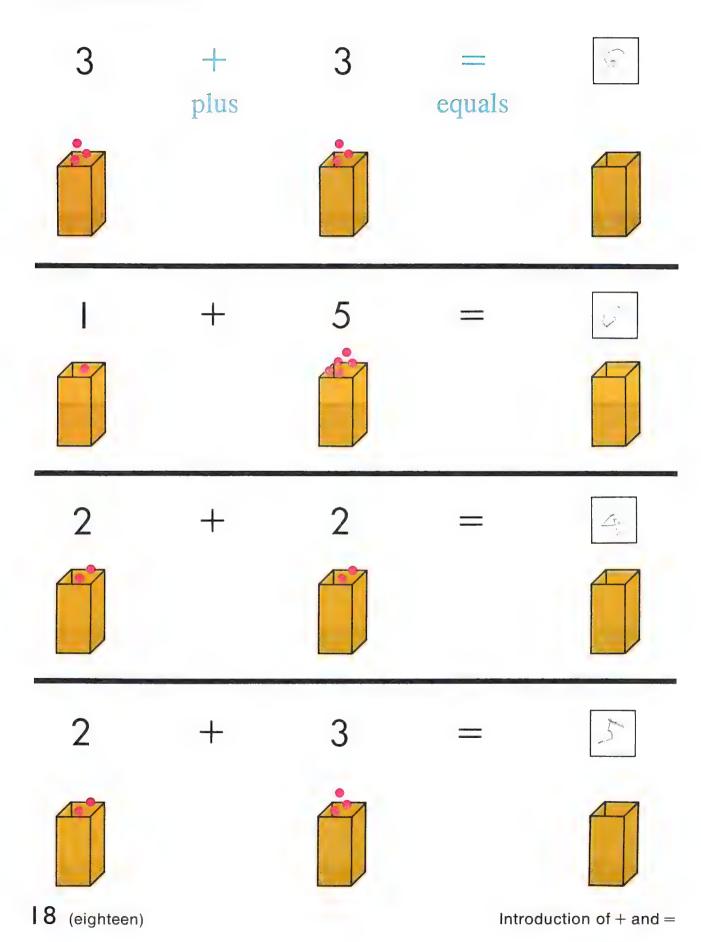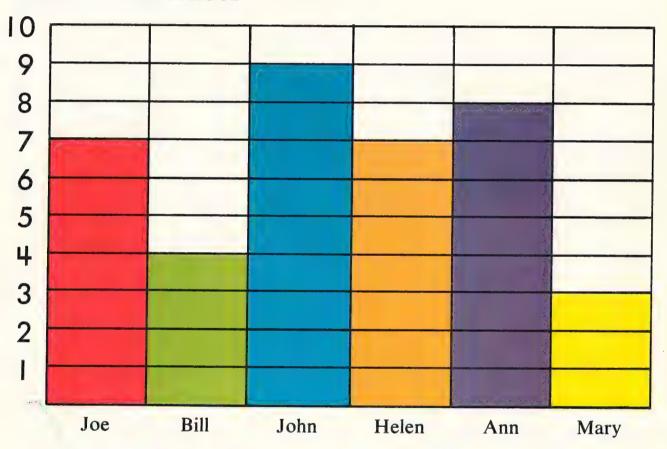
I live farther from school. I live 7 blocks from school.

Blocks from school

How far does each child live from school?

Joe: ____ blocks   Helen: ____ blocks

Bill: ____ blocks   Ann: ____ blocks

John: ____ blocks   Mary: ____ blocks
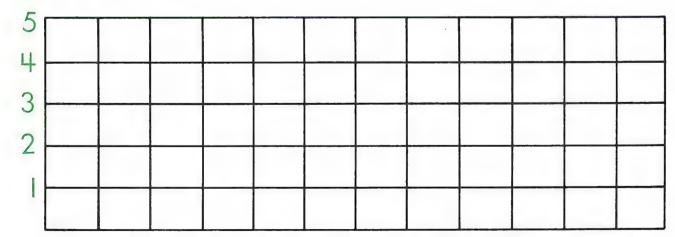
Ask each child in your class for the month of his birthday. Make tally marks in the boxes.

January	February	March	April
May	June	July	August
September	October	November	December

Make a graph.

Number of birthdays

5												
4												
3												
2												
1												

Jan.　Feb.　Mar.　Apr.　May　June　July　Aug.　Sept.　Oct.　Nov.　Dec.
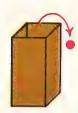
Fill in each ☐.

Put in	Take out	How many left?
4	1	3
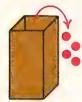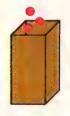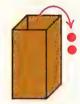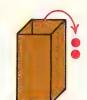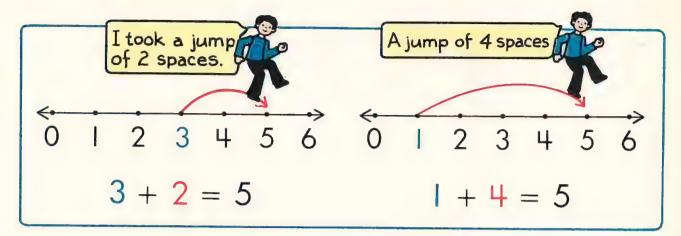
Put in	Take out	How many left?
6	4	2

3 minus	2 equals	1

5 minus	2 equals	3

Fill in each □.

6	minus −	3	equals =	3

5	−	4	=	1

6	−	2	=	4

4	−	2	=	2

Subtraction, − and =

Name _____

Study the number-line picture.

Then fill in the □.

I took a jump of 2 spaces.

$$3 + 2 = 5$$

A jump of 4 spaces

$$1 + 4 = 5$$

$$0 + 2 = \boxed{}$$

$$4 + 2 = \boxed{}$$

$$1 + 3 = \boxed{}$$

$$2 + 4 = \boxed{}$$

$$3 + 0 = \boxed{}$$

$$1 + 5 = \boxed{}$$

Study the number-line picture.

Then fill in the ☐.

Start at 4. Take a jump of 1 space to the left.

$$4 - 1 = 3$$

$$5 - 3 = 2$$

$$6 - 2 = \boxed{}$$

$$5 - 4 = \boxed{}$$

$$6 - 3 = \boxed{}$$

$$3 - 3 = \boxed{}$$

$$6 - 1 = \boxed{}$$

$$4 - 2 = \boxed{}$$

Subtraction—number line

Name _____

$(3 + 2) + 2 = 7$

5

Fill in each □.

$(1 + 2) + 3 = \boxed{6}$

$3 + (1 + 2) = \boxed{}$

Add these first.

$(1 + 3) + 3 = \boxed{}$

$1 + (1 + 1) = \boxed{}$

$(2 + 1) + 4 = \boxed{}$

$4 + (2 + 1) = \boxed{}$

$(2 + 2) + 2 = \boxed{}$

$(2 + 4) + 1 = \boxed{}$

6

$(5 + 0) + 1 = \boxed{}$

$3 + (1 + 1) = \boxed{}$

$(1 + 4) + 2 = \boxed{}$

$1 + (2 + 4) = \boxed{}$
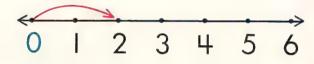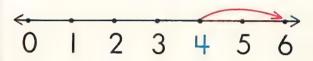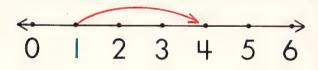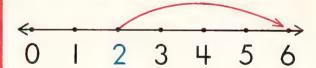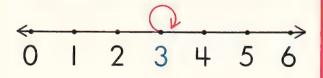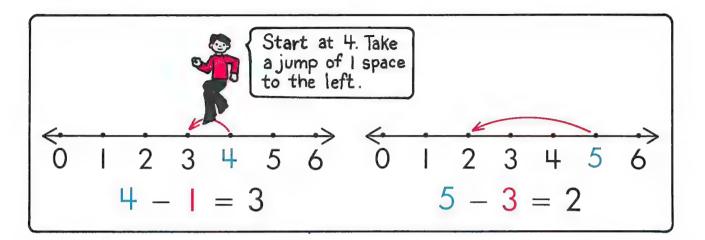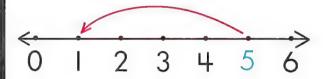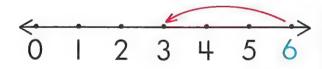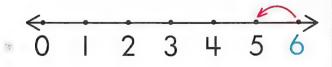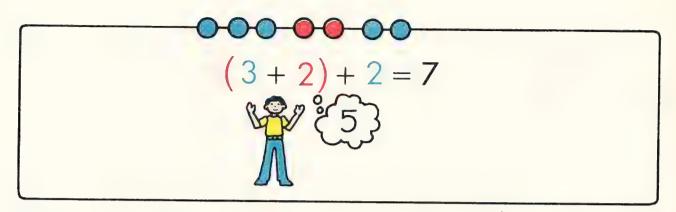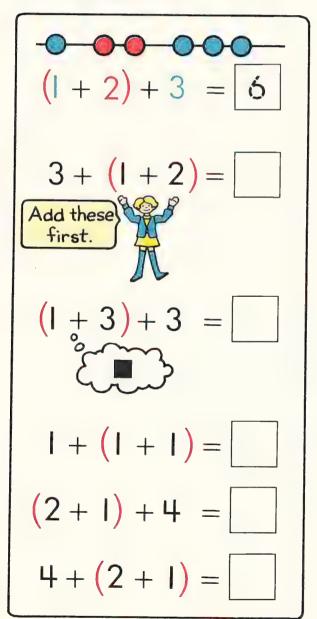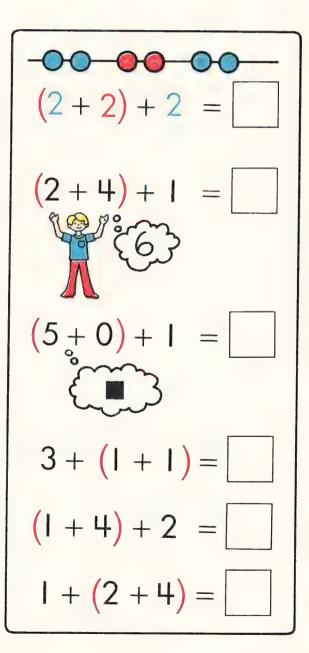
Fill in each □.

$(4 + 2) + 1 = \boxed{}$ $4 + (2 + 1) = \boxed{}$

Add these first.   Add these first.

$(4 + 2) + 1 = 4 + (2 + \boxed{})$

$(3 + 2) + 1 = \boxed{}$ $3 + (2 + 1) = \boxed{}$

$(3 + 2) + 1 = 3 + (2 + \boxed{})$

$(3 + 2) + 1 = \boxed{}$

$3 + (1 + 2) = \boxed{}$

$(2 + 3) + 1 = \boxed{}$

$2 + (1 + 3) = \boxed{}$

$(1 + 2) + 3 = \boxed{}$

$1 + (3 + 2) = \boxed{}$

You can add in any order.

$2 + 1 + 4 = \boxed{}$

$4 + 2 + 1 = \boxed{}$

$1 + 4 + 2 = \boxed{}$

$$\begin{array}{r} 3 \\ 2 \\ +1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ 3 \\ +2 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ 1 \\ +2 \\ \hline \end{array}$$

Addition—three addends

Name_____

Who am I?

You get 5 when you add me to 4.

☐

You get 7 when you subtract me from 10.

☐

The sum is 8 when you add me to 3.

☐

You get 4 when you subtract 2 from me.

☐

You get 5 when you subtract me from 5.

☐

You get 2 when you subtract 0 from me.

☐

When you add me to 3, the sum is 7.

☐

The sum is 8 when you add me to myself.

☐

headline...

★ NUMBER NEWS ★

6 + 2 = 8

Can you tell a story?

John's story:

I had 6 marbles. Bob gave me 2 more. Now I have 8 marbles.

Follow the path.
Find the ending number.

START WITH [2] +5 −3 +4 END WITH [8]

2+5=7
7−3=4
4+4=8

START WITH [4] +2 −3 +4 END WITH [ ]

START WITH [5] −4 +6 −2 +3 END WITH [ ]

START WITH [3] +4 −5 +4 −4 END WITH [ ]

Practice exercises

Name_____

Study the number line picture.
Then fill in the □.

0 1 2 3 4 5 6 7 8 9   0 1 2 3 4 5 6 7 8 9

$5 + 4 =$ □ $9 - 4 =$ □

0 1 2 3 4 5 6 7 8 9   0 1 2 3 4 5 6 7 8 9

$3 + 6 =$ □ $9 - 6 =$ □

0 1 2 3 4 5 6 7 8 9   0 1 2 3 4 5 6 7 8 9

$4 + 5 =$ □ $9 - 5 =$ □

0 1 2 3 4 5 6 7 8 9   0 1 2 3 4 5 6 7 8 9

$2 + 7 =$ □ $9 - 7 =$ □

Fill in each □.

2, 7, 9

$2 + \boxed{} = 9$

$9 - 2 = \boxed{}$

$7 + \boxed{} = 9$

$9 - 7 = \boxed{}$

3, 6, 9

$3 + \boxed{} = 9$

$9 - 3 = \boxed{}$

$6 + \boxed{} = 9$

$9 - 6 = \boxed{}$

4, 5, 9

$4 + \boxed{} = 9$

$9 - 4 = \boxed{}$

$5 + \boxed{} = 9$

$9 - 5 = \boxed{}$

3, 5, 8

$5 + \boxed{} = 8$

$8 - 5 = \boxed{}$

$3 + \boxed{} = 8$

$8 - 3 = \boxed{}$

$$\begin{array}{cccccc} 6 & 9 & 8 & 9 & 7 & 9 \\ -2 & -5 & -6 & -3 & -4 & -2 \\ \hline \end{array}$$

$$\begin{array}{cccccc} 9 & 8 & 9 & 9 & 8 & 7 \\ -4 & -3 & -6 & -1 & -4 & -2 \\ \hline \end{array}$$

Families of facts
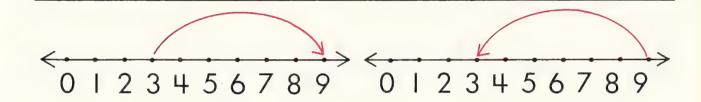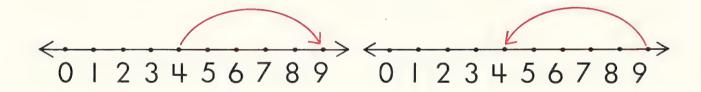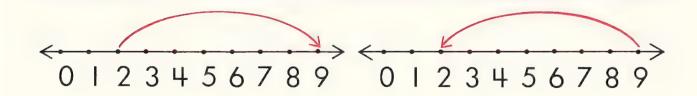
Loop ways of writing the number.

| 7 | 3 + 2 | (9 − 2) | 4 + 1 | (4 + 3) |

Ways of writing 7.

| 9 | 9 + 0 | 1 + 8 | 6 + 2 | 5 − 4 |

| 6 | 7 − 1 | 9 − 3 | 3 + 3 | 5 + 0 |

| 4 | 4 + 3 | 7 − 3 | 2 + 2 | 9 − 5 |

| 0 | 2 + 2 | 0 + 0 | 4 − 4 | 6 − 5 |

| 3 | 9 − 6 | 5 − 3 | 8 − 3 | 1 + 1 + 1 |

| 8 | 7 + 1 | 9 − 1 | 4 + 5 | 2 + 2 + 3 |

| 5 | 4 + 3 | 8 − 3 | 2 + 3 | 9 − 5 |
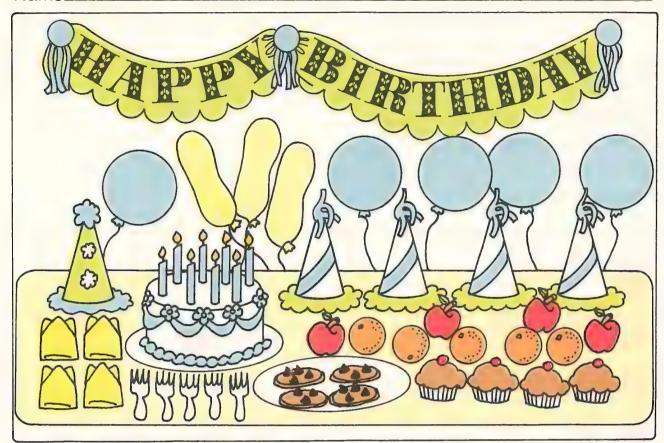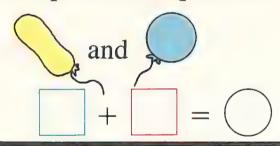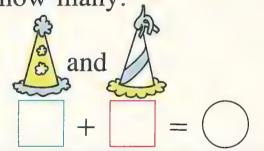
Add or subtract.

3	6	3	4	8	0
+6	+3	+4	+3	+0	+8
9	9	7	7	8	8

5	4	6	2	2	4
+4	+5	+2	+6	+4	+2
9	9	8	8	6	5

$$9 - \boxed{} = 2$$

$$7 - \boxed{} = 2$$

$$5 - \boxed{} = 2$$

$$4 + \boxed{} = 9$$

$$4 + \boxed{} = 7$$

$$4 + \boxed{} = 5$$

Watch the signs.

3	5	4	7	6	8
+2	−2	+3	−3	+2	−2

7	7	7	7	5	5
−1	+1	−2	+2	+3	−3

Addition and subtraction practice

Name

Complete the equation to tell how many.

and

☐ + ☐ = ◯

and

☐ + ☐ = ◯

and

☐ + ☐ = ◯

and

☐ + ☐ = ◯

and

☐ + ☐ = ◯

and

☐ + ☐ = ◯

Complete each equation.

How many more GREEN than YELLOW?

$\square - \square = \bigcirc$

How many more 🍎 than 🍊?

$\square - \square = \bigcirc$

How many more ✏️ than ✏️?

$\square - \square = \bigcirc$

How many more 🍪 than 🥚?

$\square - \square = \bigcirc$

Subtraction practice
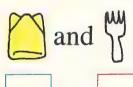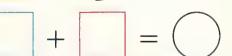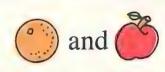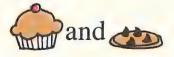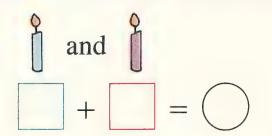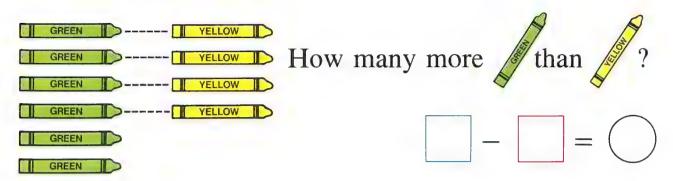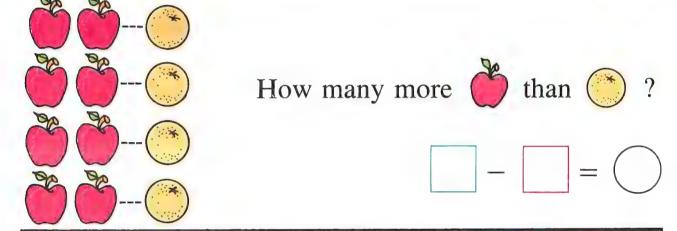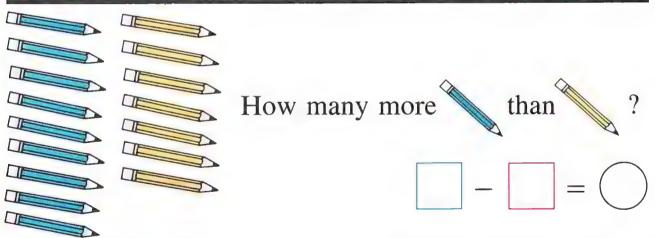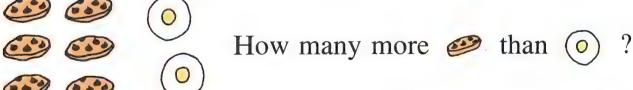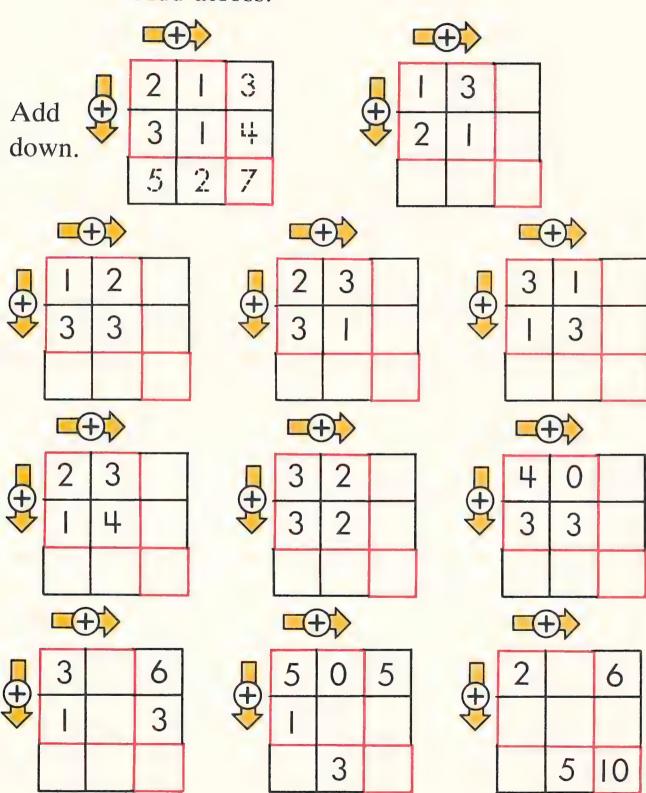
Complete the addition boxes.

Add across.

Add down.

2	1	3
3	1	4
5	2	7

1	3	
2	1	

1	2	
3	3	

2	3	
3	1	

3	1	
1	3	

2	3	
1	4	

3	2	
3	2	

4	0	
3	3	

3		6
1		3

5	0	5
1		
	3	

2		6
	5	10

Add.

5	2	6	4	2	2	0	0
+5	+6	+3	+1	+8	+4	+9	+0

10	2	8	5	4	3	7	4
+0	+2	+1	+4	+5	+3	+2	+4

Subtract.

10	5	6	10	6	10	8	10
−0	−2	−2	−1	−6	−6	−3	−7

3	8	10	5	9	8	7	0
−0	−8	−3	−5	−8	−5	−6	−0

Complete the addition boxes.

2	3	5
1	4	
	7	

0	5	
2	1	

3		6
1		3

Name_____

Penny	Nickel
I cent I ¢	5 cents 5 ¢

How many cents?

☐ ¢	☐ ¢
☐ ¢	☐ ¢
☐ ¢	☐ ¢
☐ ¢	☐ ¢
☐ ¢	☐ ¢
☐ ¢	☐ ¢

How many cents left?

Had	Bought	Had	Bought
(5¢ coin)	Lollipop 2¢ — ☐ ¢ left	(5¢ coin)	Candy 1¢ — ☐ ¢ left
(5¢ coin, 1¢ coin)	Comb 4¢ — ☐ ¢ left	(5¢ coin, 1¢ coin)	GUM 5¢ — ☐ ¢ left
(5¢ coin, two 1¢ coins)	ERASER 3¢ — ☐ ¢ left	(two 5¢ coins)	Pencil 7¢ — ☐ ¢ left
(5¢ coin, four 1¢ coins)	Bracelet 8¢ — ☐ ¢ left	(5¢ coin, three 1¢ coins)	Ring 6¢ — ☐ ¢ left

Problem solving

Books Read

	Mary	Joe	Betty	Bob	Jim	Sue	Dick
12							
11							
10							
9							
8							
7							
6							
5							
4							
3							
2							
1							
0							

Who has read 11 books? _____

Two people have read the same
number of books. Who are they? _____

Joe wants to read 10 books. How
many more will he need to read? _____
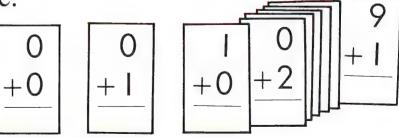
How many children have read
fewer books than Dick? _____

Reading a graph   (seventy-one) 71
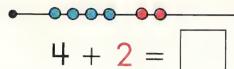
Fill in the squares with any 9 of these numbers.

0 1 2 3 4 10

5 6 7 8 9

Do not write them in order.

Your teacher
will explain the game.

$$\begin{array}{r} 0 \\ +0 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +0 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ +1 \\ \hline \end{array}$$

Game—sums to 10

CHECKUP

Complete each equation.

$$4 + 2 = \boxed{}$$

$$10 - 4 = \boxed{}$$

Add.

4	6	8	5	3	5
+3	+2	+2	+4	+6	+5

5	2	6	3	4	7
+5	+7	+4	+5	+4	+3

Subtract.

10	9	10	9	8	9
−3	−4	−5	−6	−3	−5

8	10	9	10	8	8
−6	−6	−4	−7	−5	−4

How many cents?

$\boxed{}$ ¢

$\boxed{}$ ¢

Project

How many teeth are you missing?
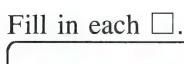
Write each classmate's name in the right box.
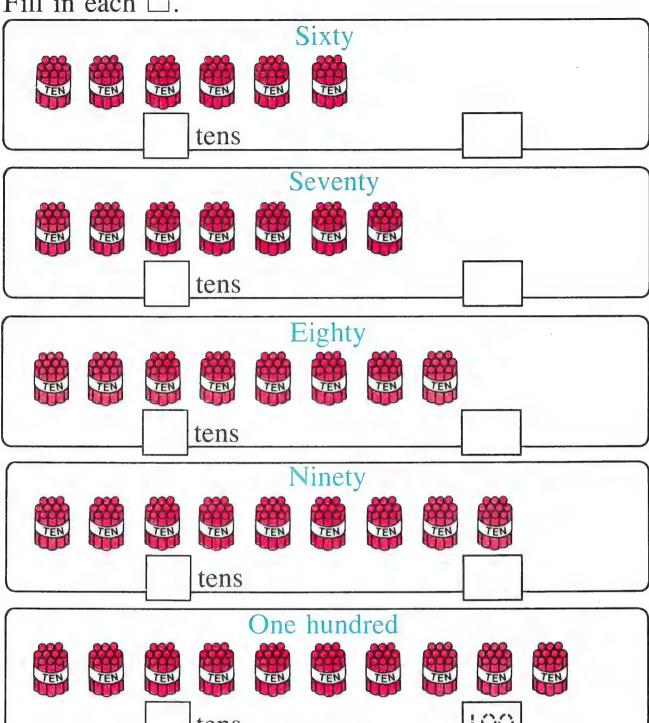
0 teeth missing	1 tooth missing	2 teeth missing

3 teeth missing	4 teeth missing	5 teeth missing

6 teeth missing	7 teeth missing	You may wish to show what you found on a bar graph.
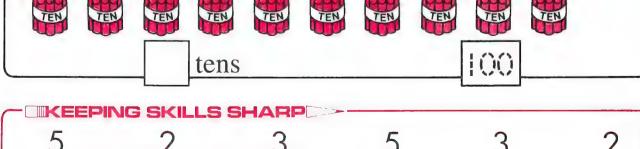
Project—collecting data

Fill in each □.

Ten

1 ten — 10
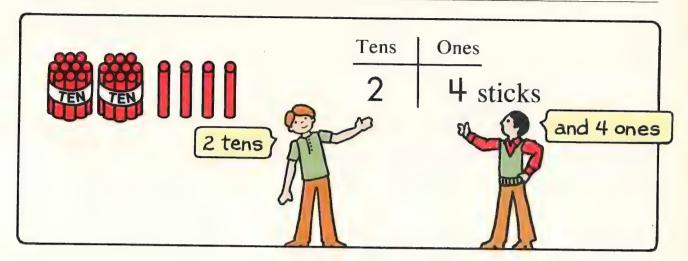
Twenty

☐ tens — ☐

Thirty

☐ tens — ☐

Forty

☐ tens — ☐

Fifty

☐ tens — ☐

Fill in each ☐.

Sixty

☐ tens   ☐

Seventy

☐ tens   ☐

Eighty

☐ tens   ☐

Ninety

☐ tens   ☐

One hundred

☐ tens   100

$$5 \\ +3$$ $$2 \\ +4$$ $$3 \\ +3$$ $$5 \\ +4$$ $$3 \\ +4$$ $$2 \\ +6$$

Tens	Ones
2	4 sticks

2 tens

and 4 ones
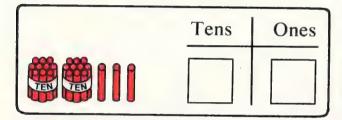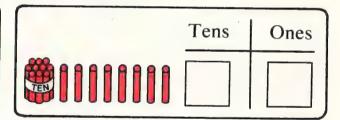
How many sticks?

Fill in each table.

Tens	Ones

Tens	Ones

Tens	Ones

Tens	Ones

Tens	Ones

Tens	Ones
	0

Tens and ones—table form

Fill in the tables.

TABLE FORM

Tens	Ones	
☐	☐	sticks

Tens	Ones	
☐	☐	sticks

Tens	Ones	
☐	☐	sticks

Tens	Ones	
☐	☐	sticks

Tens	Ones	
☐	☐	sticks

7	3	5	7	2	4
+2	+5	+1	+0	+4	+5

Tens and ones—table form
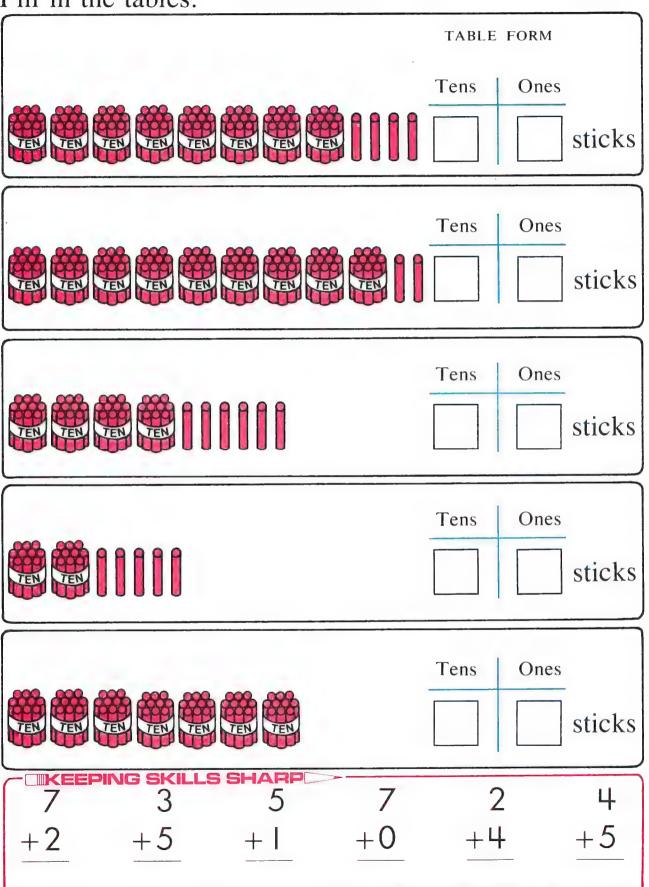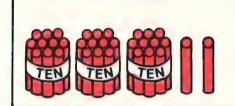
	TABLE FORM		STANDARD FORM
	Tens	Ones	
	2	4 sticks	24 sticks

	Tens	Ones	
	☐	☐	☐

	Tens	Ones	
	☐	☐	☐

	Tens	Ones	
	☐	☐	☐

	Tens	Ones	
	☐	☐	☐

	Tens	Ones	
	☐	☐	☐
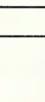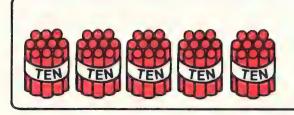
Loop the correct number of sticks.

35

46

53

84

61

70

80 (eighty)

Tens and ones

Fill in each □.

0 1 2 3 □ □ □ □ 8 □ □ □ □ □

10 □ 12 □ 14 □ □ □ □ 19 □

47 48 □ □ □ 52 □ □ □

□ 71 □ 73   □ 89 □ □ □

38 □ □ 41   □ □ □ 12 13

50 □ 52 □   86 □ □ □ □

19 □ 21 □   □ 70 71 □ □

90 □ □ □   38 □ □ □ 42

Fill in the table.

1	2	3							10
	12							19	
		23					28		
			34			37			
				45	46				
				55	56				
			64			67			
		73					78		
	82							89	
91									100

7	6	8	10	9	10
−5	−1	−7	−4	−5	−7

Color the boxes.

Count by 2's.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Count by 3's.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27			

Count by 5's.
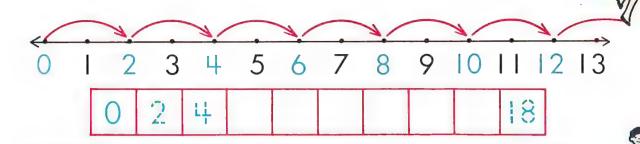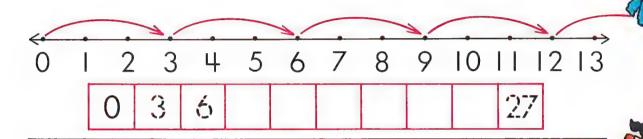
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45					
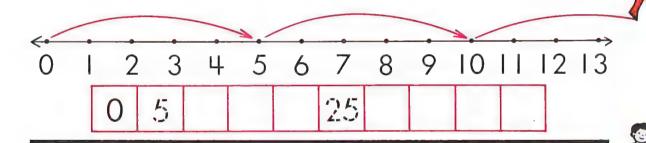
Count by 10's.
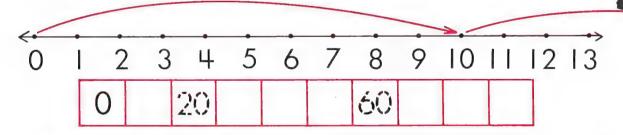
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Skip counting

Complete each skip-count table.

Number line: 0 1 2 3 4 5 6 7 8 9 10 11 12 13

0	2	4							18

Number line: 0 1 2 3 4 5 6 7 8 9 10 11 12 13

0	3	6							27

Number line: 0 1 2 3 4 5 6 7 8 9 10 11 12 13

0	5				25				

Number line: 0 1 2 3 4 5 6 7 8 9 10 11 12 13

0		20			60			

KEEPING SKILLS SHARP

$$
\begin{array}{cccccc}
5 & 5 & 0 & 4 & 2 & 1 \\
+5 & +1 & +6 & +4 & +8 & +8 \\
\hline
\end{array}
$$

84 (eighty-four)   Skip counting
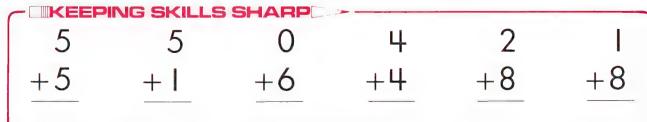
STANDARD FORM	EXPANDED FORM	WORDS
▓▓‖‖‖‖ 24	20 + 4	twenty-four
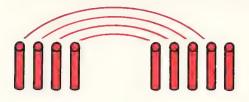
Fill in the table.

STANDARD FORM	EXPANDED FORM	WORDS
35		thirty-five
47		forty-seven
	50 + 1	fifty-one
	80 + 2	eighty-two
93		ninety-three
16		sixteen
11		eleven
	90 + 4	ninety-four
		fifty-eight
		sixty-nine
		seventy-six

Start at 10.

Connect the dots.

2	9	2	4	2	3
+3	+1	+3	+6	+7	+5

86 (eighty-six)   Counting
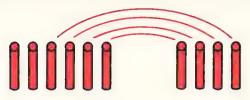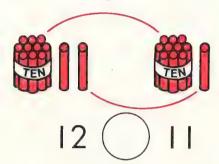
4 < 5
is less than

6 > 4
is greater than

Write the sign, < or >.

12 ◯ 11

22 ◯ 24

36 ◯ 34   28 ◯ 29   19 ◯ 11

43 ◯ 46   47 ◯ 41   53 ◯ 58

20 ◯ 30   26 ◯ 36   29 ◯ 30

63 ◯ 59   64 ◯ 79   92 ◯ 85

headline...
NUMBER NEWS
38 > 35

Can you tell a story?

KEEPING SKILLS SHARP

Add.

5	2	6	4	2	2	0	0
+5	+6	+3	+1	+8	+4	+9	+0

10	2	8	5	4	3	7	4
+0	+2	+1	+4	+5	+3	+2	+4

Subtract.

10	5	6	10	6	10	8	10
−0	−2	−2	−1	−6	−6	−3	−7

3	8	10	5	9	8	7	0
−0	−8	−3	−5	−8	−5	−6	−0

Complete the addition boxes.

2	3	5
1	4	
	7	

0	5	
2	1	

3		6
1		3

Price tags shown:
- Pencil — 10¢
- Blue crayon — 3¢
- Notebook — 20¢
- Red crayon — 3¢
- Green crayon — 3¢
- Eraser — 8¢
- Bowl — 6¢
- Paintbrush — 10¢
- Paste — 10¢

How much would these cost?

NOTE BOOK + pencil = ☐ ¢	bowl + paintbrush = ☐ ¢
PASTE + BLUE + GREEN + RED = ☐ ¢	NOTE BOOK + pencil + ERASER = ☐ ¢
PASTE + paintbrush + bowl = ☐ ¢	NOTE BOOK + NOTE BOOK + pencil + ERASER = ☐ ¢
NOTE BOOK + BLUE + GREEN + RED = ☐ ¢	ERASER + pencil + pencil + NOTE BOOK = ☐ ¢

How many cents left?

Had	Bought
(dime)	ERASER 8¢ □ ¢ left

Had	Bought
(dime)	RED 3¢ BLUE 3¢ □ ¢ left

Had	Bought
(dime)	10¢ □ ¢ left

Had	Bought
(dime)	6¢ □ ¢ left

Had	Bought
(dime)	6¢ RED 3¢ □ ¢ left

Had	Bought
(dime)	10¢ □ ¢ left

Had	Bought
(dime)	3¢ GREEN RED BLUE 3¢ 3¢ □ ¢ left

Had	Bought
(dime)	PASTE 10¢ □ ¢ left

headline...

★ NUMBER NEWS ★

$$6 + 3 = 9$$

Tell a story.

Problem solving

Name_____

Fill in each ☐.   Count by 10's.

| | | → 3

🛢️| | | → ☐

🛢️🛢️| | | → ☐

🛢️🛢️🛢️| | | → ☐

🛢️🛢️🛢️🛢️| | | → ☐

🛢️🛢️🛢️🛢️🛢️| | | → ☐

🛢️🛢️🛢️🛢️🛢️🛢️| | | → ☐

🛢️🛢️🛢️🛢️🛢️🛢️🛢️| | | → ☐

6

16

☐

☐

☐

☐

☐

☐

86

☐

5, 15, ☐, ☐, 45, ☐, ☐, ☐, ☐, ☐

Counting by tens   (ninety-three) 93

What is 10 more?

10, _20_

50, ___

3, ___

42, ___

71, ___

82, ___

49, ___

56, ___

74, ___

61, ___

70, ___

18, ___

What is 10 less?

_8_, 18

___, 36

___, 51

___, 93

___, 88

___, 50

___, 10

___, 26

___, 68

___, 91

___, 40

___, 16

headline...

★ NUMBER NEWS ★

9 - 4 = 5

Tell a story.

CHECKUP

Fill in each ☐.

☐ tens
20

☐ tens
☐

Match.

10   20   30 40   50   60 70 80   90

twenty thirty ten forty seventy fifty sixty ninety eighty

Complete.

	TABLE FORM		STANDARD FORM	EXPANDED FORM
	Tens	Ones		
	Tens	Ones		

Fill in each ☐.

☐ 38 39 ☐ 41

☐ ☐ 81 82

How many cents?

☐ ¢ | ☐ ¢ | ☐ ¢
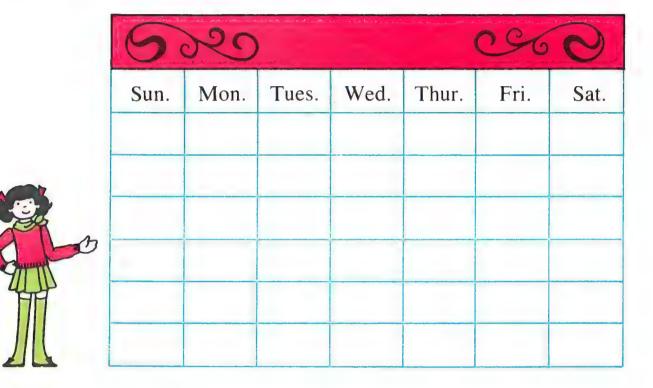
Copy this month's calendar.

Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
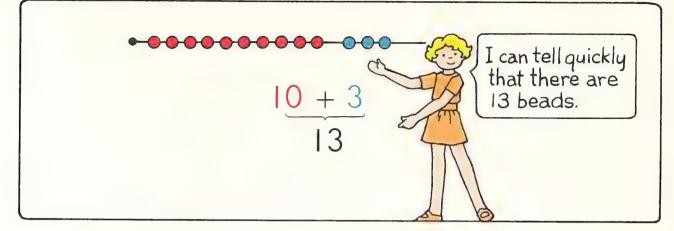
Look at the calendar you made.
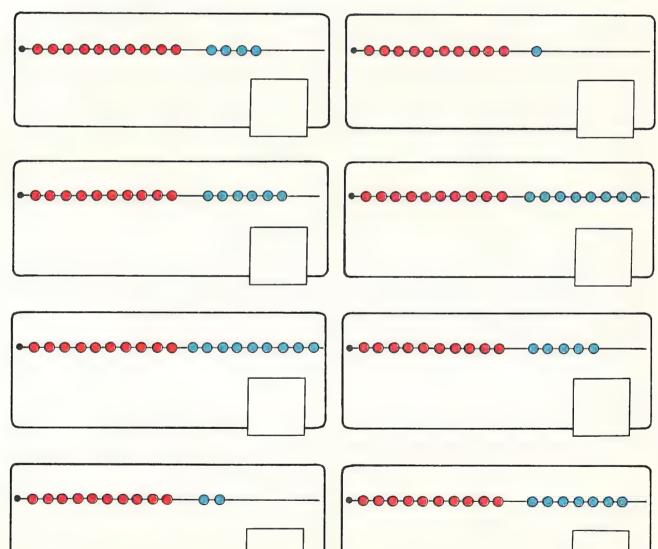
Tell how many.
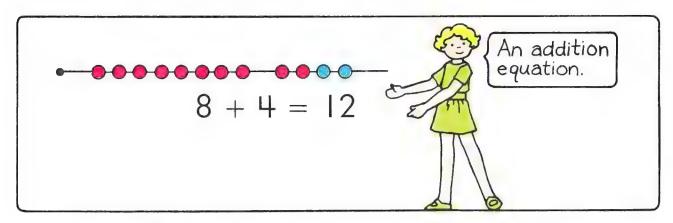
Mondays _____   School days _____

Wednesdays _____   Vacation days _____

Saturdays _____   Holidays _____

There are always 10 red beads.

$$\underline{10 + 3}$$
$$13$$

I can tell quickly that there are 13 beads.

How many beads?

An addition equation.

$$8 + 4 = 12$$

Complete the equations.

$$7 + 6 = \boxed{}$$

$$8 + 4 = \boxed{}$$

$$5 + 6 = \boxed{}$$

$$7 + 7 = \boxed{}$$

$$4 + 8 = \boxed{}$$

$$6 + 8 = \boxed{}$$

$$7 + \boxed{} = 16$$

$$9 + \boxed{} = 14$$

7	8	6	5	4	3
+3	+2	+1	+5	+5	+5

Addition equations

Name_____

There are 10 red beads.

7 + 4 = 11

(7 + 3) + 1 = 11

10 + 1 =

Complete the equations.

6 + 5 = ☐

(6 + 4) + 1 = ☐

4 + 7 = ☐

(4 + 6) + 1 = ☐

3 + 8 = ☐

(3 + 7) + 1 = ☐

5 + 6 = ☐

(5 + 5) + 1 = ☐

2 + 9 = ☐

(2 + 8) + 1 = ☐

8 + 3 = ☐

(8 + 2) + 1 = ☐

Complete the equations.

$1 + 9 = \boxed{}$

$2 + 9 = \boxed{}$

$5 + 5 = \boxed{}$

$5 + 6 = \boxed{}$

$6 + 4 = \boxed{}$

$6 + 5 = \boxed{}$

$7 + 3 = \boxed{}$

$7 + 4 = \boxed{}$

$8 + 2 = \boxed{}$

$8 + 3 = \boxed{}$

$9 + 1 = \boxed{}$

$9 + 2 = \boxed{}$

$4 + 6 = \boxed{}$

$4 + 7 = \boxed{}$

$2 + 8 = \boxed{}$

$2 + 9 = \boxed{}$

$\boxed{} = 3 + 7$

$\boxed{} = 3 + 8$

$\boxed{} = 2 + 7$

$\boxed{} = 4 + 7$

10	8	9	10	9	10
−3	−6	−4	−8	−6	−4

100 (one hundred)   Sums of 10 and 11

Name_____

Complete the equations.

There are 9 beads left.

$11 - 2 = \boxed{9}$

$11 - 4 = \boxed{}$

$11 - 3 = \boxed{}$

$11 - 6 = \boxed{}$

$11 - 5 = \boxed{}$

$11 - 7 = \boxed{}$

$11 - 9 = \boxed{}$

$11 - 8 = \boxed{}$

Complete the equations.

$11, 6, 5$

$6 + \boxed{} = 11$

$11 - 6 = \boxed{}$

$5 + \boxed{} = 11$

$11 - 5 = \boxed{}$

$11, 8, 3$

$8 + \boxed{} = 11$

$11 - 8 = \boxed{}$

$3 + \boxed{} = 11$

$11 - 3 = \boxed{}$

$11, 7, 4$

$7 + \boxed{} = 11$

$11 - 7 = \boxed{}$

$4 + \boxed{} = 11$

$11 - 4 = \boxed{}$

$11, 9, 2$

$9 + \boxed{} = 11$

$11 - 9 = \boxed{}$

$2 + \boxed{} = 11$

$11 - 2 = \boxed{}$

Subtract.

$$\begin{array}{cccccc} 11 & 10 & 11 & 11 & 11 & 10 \\ -2 & -3 & -4 & -9 & -6 & -7 \\ \hline \end{array}$$

KEEPING SKILLS SHARP

 $\boxed{}$ sticks

 $\boxed{}$ sticks

Families of facts

Complete the equation
to tell how many.

 and

☐ + ☐ = ◯

 ERASER and

☐ + ☐ = ◯

 and

☐ + ☐ = ◯

 GLUE and GLUE

☐ + ☐ = ◯

 GLUE and INK

☐ + ☐ = ◯

 NOTE BOOK and NOTES

☐ + ☐ = ◯

Sums

Complete each equation.

How many more 🔴 than 🟢 ?

☐ – ☐ = ☐

How many more 🚗 than 🏎 ?

☐ – ☐ = ☐

How many more 🎈 than 🌭 ?

☐ – ☐ = ☐

How many more ✒ than 🖊 ?

☐ – ☐ = ☐

Problem solving
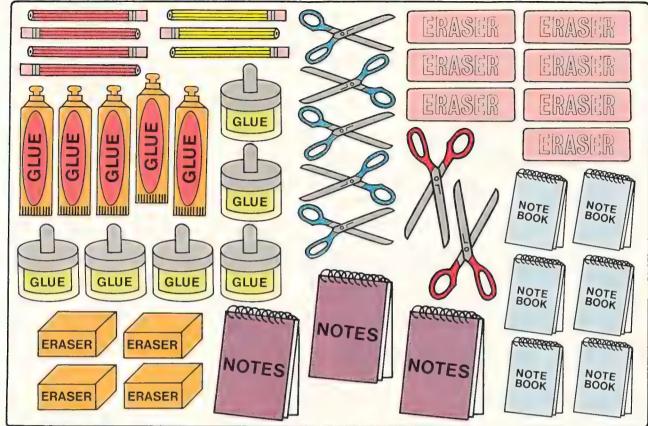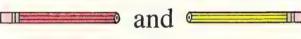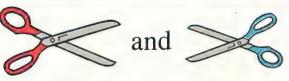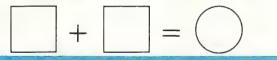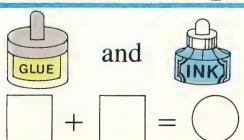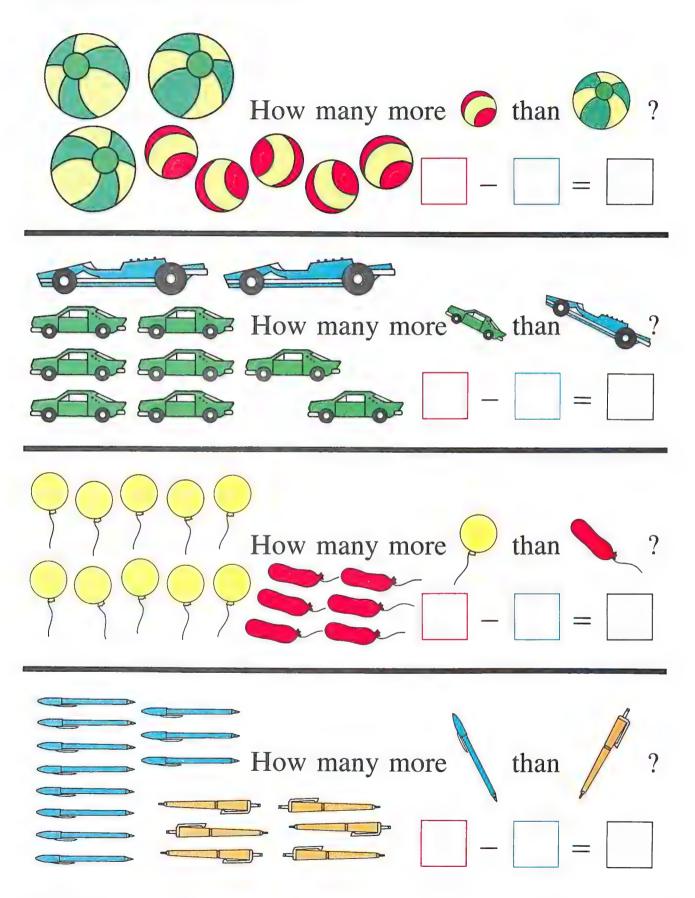
Name_____

Remember that there are 10 red beads.

$$6 + 6 = 12$$

$$(6 + 4) + 2 = 12$$

Complete the equations.

$$7 + 5 = \boxed{}$$

$$(7 + 3) + 2 = \boxed{}$$

$$8 + 4 = \boxed{}$$

$$(8 + 2) + 2 = \boxed{}$$

$$3 + 9 = \boxed{}$$

$$(3 + 7) + 2 = \boxed{}$$

$$5 + 7 = \boxed{}$$

$$(5 + 5) + 2 = \boxed{}$$

$$9 + 3 = \boxed{}$$

$$(9 + 1) + 2 = \boxed{}$$

$$4 + 8 = \boxed{}$$

$$(4 + 6) + 2 = \boxed{}$$

Complete the equations.

$3 + 8 = \boxed{}$

$3 + 9 = \boxed{}$

$5 + 6 = \boxed{}$

$5 + 7 = \boxed{}$

$8 + \boxed{} = 11$

$8 + 4 = \boxed{}$

$9 + \boxed{} = 11$

$9 + 3 = \boxed{}$

$5 + 6 = \boxed{}$

$5 + 7 = \boxed{}$

$4 + 7 = \boxed{}$

$4 + 8 = \boxed{}$

$7 + \boxed{} = 11$

$7 + 5 = \boxed{}$

$6 + \boxed{} = 11$

$6 + 6 = \boxed{}$

$\boxed{} = 3 + 8$

$\boxed{} = 3 + 9$

$\boxed{} = 4 + 7$

$\boxed{} = 4 + 8$

$\boxed{}$ ¢

$\boxed{}$ ¢

106 (one hundred six)

Sums of 11 and 12

Complete these equations.

There are 8 beads left.

$$12 - 4 = \boxed{8}$$

$$12 - 5 = \boxed{}$$

$$12 - 7 = \boxed{}$$

$$12 - 3 = \boxed{}$$

$$12 - 8 = \boxed{}$$

$$12 - 6 = \boxed{}$$

$$12 - 9 = \boxed{}$$

Fill in each □.

12, 7, 5

$7 + \boxed{} = 12$

$12 - 7 = \boxed{}$

$5 + \boxed{} = 12$

$12 - 5 = \boxed{}$

3, 9, 12

$9 + \boxed{} = 12$

$12 - 9 = \boxed{}$

$3 + \boxed{} = 12$

$12 - 3 = \boxed{}$

4, 8, 12

$8 + \boxed{} = 12$

$12 - 8 = \boxed{}$

$4 + \boxed{} = 12$

$12 - 4 = \boxed{}$

10, 6, 4

$4 + \boxed{} = 10$

$10 - 4 = \boxed{}$

$6 + \boxed{} = 10$

$10 - 6 = \boxed{}$

Subtract.

12 −3	12 −9	11 −8	12 −7	11 −6	12 −5
12 −8	11 −5	12 −4	11 −9	12 −6	11 −7

Families of facts

Name_____

PEANUTS 4¢ / 5¢ / GUM 6¢ / 7¢ / fudge bar / 10¢ CANDY / 2¢ / 3¢
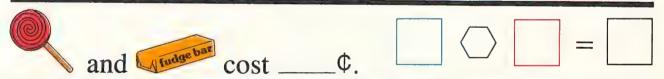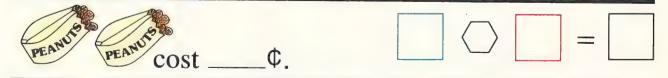
First fill in the ____.
Then write an equation.

PEANUTS and GUM cost __11__ ¢. $5 + 6 = 11$

CANDY and [lollipop] cost ____ ¢. $\square \bigcirc \square = \square$

[lollipop] and GUM cost ____ ¢. $\square \bigcirc \square = \square$

[candy cane] and fudge bar cost ____ ¢. $\square \bigcirc \square = \square$

PEANUTS and [candy cane] cost ____ ¢. $\square \bigcirc \square = \square$

[lollipop] and fudge bar cost ____ ¢. $\square \bigcirc \square = \square$

PEANUTS PEANUTS cost ____ ¢. $\square \bigcirc \square = \square$

GUM GUM cost ____ ¢. $\square \bigcirc \square = \square$

Problem solving   (one hundred nine) 109

ERASER 7¢

5¢

6¢

8¢

10¢

11¢

12¢ PASTE
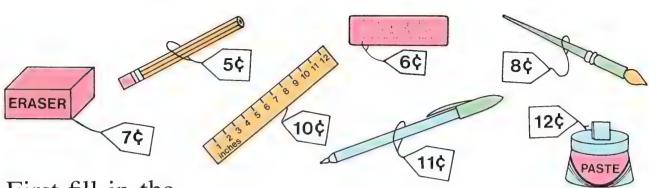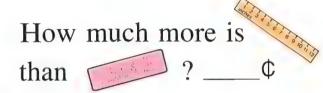
First fill in the ____.
Then write an equation.

How much more is [PASTE]
than [pencil] ? ____¢

□ ⬡ □ = □

How much more is [ruler]
than [eraser pink] ? ____¢

□ ⬡ □ = □

[ERASER] and [pencil] cost
how much? ____¢

□ ⬡ □ = □
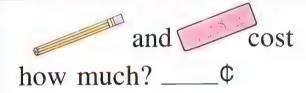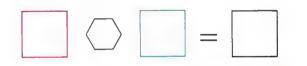
[pencil] and [eraser pink] cost
how much? ____¢

□ ⬡ □ = □
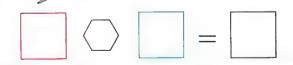
How much more is [pen]
than [ERASER] ? ____¢

□ ⬡ □ = □

How much more is [PASTE]
than [brush] ? ____¢

□ ⬡ □ = □

2	3	2	3	5	2
+4	+6	+5	+7	+4	+8

Problem solving

Name_____

There are 10 red beads.

$$7 + 6 = 13$$
$$(7 + 3) + 3 = 13$$

Fill in each ☐.

$$5 + 8 = \boxed{}$$
$$(5 + 5) + 3 = \boxed{}$$

$$4 + 9 = \boxed{}$$
$$(4 + 6) + 3 = \boxed{}$$

$$7 + 6 = \boxed{}$$
$$(7 + 3) + 3 = \boxed{}$$

$$9 + 4 = \boxed{}$$
$$(9 + 1) + 3 = \boxed{}$$

$$6 + 7 = \boxed{}$$
$$(6 + 4) + 3 = \boxed{}$$

$$8 + 5 = \boxed{}$$
$$(8 + 2) + 3 = \boxed{}$$

$$\begin{array}{c} 8 \\ +5 \\ \hline \end{array} \qquad \begin{array}{c} 6 \\ +6 \\ \hline \end{array} \qquad \begin{array}{c} 4 \\ +9 \\ \hline \end{array} \qquad \begin{array}{c} 5 \\ +6 \\ \hline \end{array} \qquad \begin{array}{c} 6 \\ +7 \\ \hline \end{array} \qquad \begin{array}{c} 5 \\ +8 \\ \hline \end{array}$$

Complete the equations.

$6 + \boxed{} = 11$

$6 + 6 = \boxed{}$

$4 + \boxed{} = 12$

$4 + 9 = \boxed{}$

$8 + \boxed{} = 12$

$8 + 5 = \boxed{}$

$5 + \boxed{} = 11$

$5 + 7 = \boxed{}$

$9 + \boxed{} = 12$

$9 + 4 = \boxed{}$

$6 + \boxed{} = 10$

$6 + 5 = \boxed{}$

$5 + \boxed{} = 12$

$5 + 8 = \boxed{}$

$4 + \boxed{} = 11$

$4 + 8 = \boxed{}$

KEEPING SKILLS SHARP

9	10	8	9	10	8
-4	-6	-5	-3	-7	-4

Complete the equations.

$13 - 9 = \boxed{}$

$13 - 6 = \boxed{}$

$13 - 4 = \boxed{}$

$13 - 7 = \boxed{}$

$13 - 8 = \boxed{}$

$13 - 5 = \boxed{}$

6, 7, 13

$6 + \boxed{} = 13$

$13 - 6 = \boxed{}$

$7 + \boxed{} = 13$

$13 - 7 = \boxed{}$

13, 8, 5

$8 + \boxed{} = 13$

$13 - 8 = \boxed{}$

$5 + \boxed{} = 13$

$13 - \boxed{} = 5$

Add.

5	3	6	3	8	3	5
5	2	4	5	2	3	1
+2	+7	+1	+2	+1	+4	+3

4	2	6	5	8	7	3
3	4	2	1	1	2	1
+5	+6	+2	+2	+1	+1	+2

Complete the addition boxes.

2	3	5
1	4	
3		

3	2	
2	4	

4	0	
5	3	

3	2	
4	4	

1	7	
3	0	

2	4	
1	6	
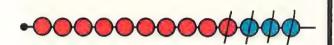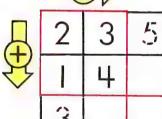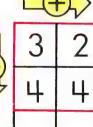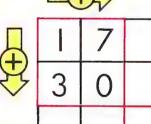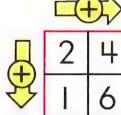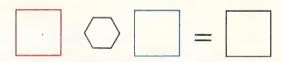
☐ sticks   ☐ sticks

First answer the question.

Then write an equation.

The blue team had 6 boys on it. The red team had 5 boys. How many boys in all? _____

☐ ⬡ ☐ = ☐

The red team made 9 points. The blue team made 4 points. How many more points did the red team make? _____

☐ ⬡ ☐ = ☐
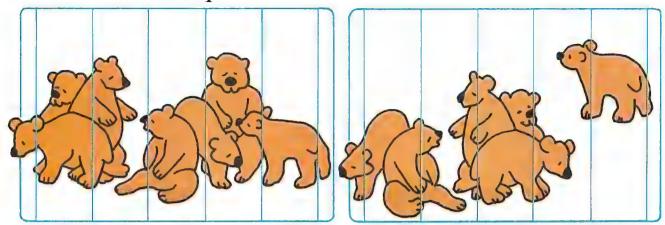
There are 6 boys on the blue team.
There are 5 boys on the red team.
How many more boys are on
the blue team than on the red
team? _____

☐ ⬡ ☐ = ☐

First answer the question.
Then write an equation.

There were 7 bears in one cage and 6 bears in another cage. How many bears were there in all? ____ □ ⬡ □ = □

In the zoo there were 9 big lions and 4 baby lions. How many lions were there in all? ____ □ ⬡ □ = □

There were 9 tigers in all. 5 of the tigers were in one cage. How many were in the other cage? ____ □ ⬡ □ = □

The zoo sold 5 monkeys. Now there are only 8 monkeys. How many monkeys were there before? ___ □ ⬡ □ = □

Name_____

$$7 + 7 = 14$$

$$(7 + 3) + 4 = 14$$

Complete the equations.

$$5 + 9 = \square$$

$$(5 + 5) + 4 = \square$$

$$8 + 6 = \square$$

$$(8 + 2) + 4 = \square$$

$$9 + 5 = \square$$

$$(9 + 1) + 4 = \square$$

$$6 + 8 = \square$$

$$(6 + 4) + 4 = \square$$

Add.

8	7	9	6	5	4
2	3	1	4	5	6
+4	+2	+4	+3	+4	+3

8	5	7	7	6	9
+6	+9	+7	+6	+8	+5

Sums of 14

Complete the equations.

$8 + 4 = \square$

$8 + 5 = \square$

$8 + 6 = \square$

$7 + 7 = \square$

$7 + 6 = \square$

$7 + 5 = \square$

$6 + \square = 12$

$6 + \square = 13$

$6 + \square = 14$

$9 + \square = 12$

$9 + \square = 13$

$9 + \square = 14$

$\square + 6 = 11$

$\square + 6 = 12$

$\square + 6 = 13$

$\square + 9 = 14$

$\square + 8 = 13$

$\square + 7 = 12$

headline...

★ NUMBER NEWS ★

$9 - 4 = 5$

Tell a story.

Complete these equations.

$14 - 6 = \boxed{}$

$14 - 8 = \boxed{}$

$14 - 7 = \boxed{}$

$14 - 9 = \boxed{}$

$14 - 5 = \boxed{}$

6, 8, 14

$6 + \boxed{} = 14$

$14 - 6 = \boxed{}$

$8 + \boxed{} = 14$

$14 - 8 = \boxed{}$

9, 5, 14

$9 + \boxed{} = 14$

$14 - 9 = \boxed{}$

$5 + \boxed{} = 14$

$14 - 5 = \boxed{}$

Subtracting from 14

Add or subtract.

Color the parts where
the answer is greater
than 8.

$14 - 6$

$6 + 7$

$14 - 7$

$14 - 9$

$13 - 7$

$12 - 3$

$12 - 5$

$3 + 7$

$6 + 8$

$13 - 4$

$7 + 1$

$10 - 1$

$11 - 2$

$7 + 6$

$6 + 1$

$0 + 6$

$8 + 3$

$7 + 7$

$12 - 8$

$13 - 8$

$14 - 5$

$13 - 9$

$12 - 4$

$6 + 6$

$12 - 7$

$6 + 6$

$9 + 8$

$13 - 5$

$13 - 6$

$13 - 5$

$6 + 8$

$9 + 0$

$12 - 9$

$12 - 6$

$8 + 5$

$3 + 7$

120 (one hundred twenty)

Addition-subtraction practice

Complete the equation to tell how many.

1 and ⫽

□ + □ = □

gum and GUM

□ + □ = □

🍭 and 🍬

□ + □ = □

⫽ and 🍬

□ + □ = □

🍭 and 1

□ + □ = □

GUM and 🍭

□ + □ = □

Complete each equation.

How many more 🍪 than 🧑 ?

☐ − ☐ = ☐

How many more 🔩 than 📌 ?

☐ − ☐ = ☐

How many more ⚾ than 🏏 ?

☐ − ☐ = ☐

How many more 🍽️ than ☕ ?

☐ − ☐ = ☐

headline...
★ NUMBER NEWS ★
11 - 3 = 8

Tell a story.

Complete the equations.
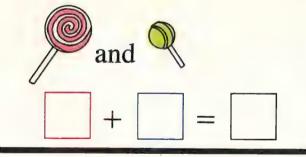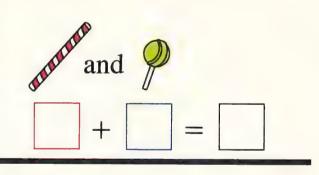
$$7 + 8 = \boxed{}$$

$$(7 + 3) + 5 = \boxed{}$$

$$8 + 7 = \boxed{}$$

$$(8 + 2) + 5 = \boxed{}$$

$$9 + 6 = \boxed{}$$

$$(9 + 1) + 5 = \boxed{}$$

$$6 + 9 = \boxed{}$$

$$(6 + 4) + 5 = \boxed{}$$

Add.

6 +7	7 +7	4 +9	5 +9	9 +6	6 +6
9 +4	3 +9	8 +7	9 +3	8 +6	3 +8
6 +9	4 +8	5 +8	4 +7	8 +5	7 +5
8 +4	6 +8	5 +7	7 +8	7 +6	9 +5

Sums to 15

Complete the equations.

$9 + 7 = \square$

$(9 + 1) + 6 = \square$

$7 + 9 = \square$

$(7 + 3) + 6 = \square$

$8 + 8 = \square$

$(8 + 2) + 6 = \square$

$9 + 6 = \square$

$9 + 7 = \square$

$6 + 9 = \square$

$7 + 9 = \square$

$8 + 7 = \square$

$8 + 8 = \square$

$9 + 5 = \square$

$9 + 6 = \square$

$8 + 6 = \square$

$8 + 7 = \square$

$7 + 7 = \square$

$7 + 8 = \square$

6	3	5	2	5	3
+4	+4	+3	+7	+5	+6

124 (one hundred twenty-four)

Sums to 16

Complete these equations.

$15 - 6 = \boxed{}$

$15 - 8 = \boxed{}$

$15 - 9 = \boxed{}$

$15 - 7 = \boxed{}$

$16 - 8 = \boxed{}$

$16 - 7 = \boxed{}$

6, 9, 15

$6 + \boxed{} = 15$

$15 - 6 = \boxed{}$

$9 + \boxed{} = 15$

$15 - 9 = \boxed{}$

7, 9, 16

$7 + \boxed{} = 16$

$16 - 7 = \boxed{}$

$9 + \boxed{} = 16$

$16 - 9 = \boxed{}$

Who am I?

If you add me to 6, you get 15.

☐

If you add me to 8, you get 16.

☐

If you subtract me from 15, you get 8.

☐

If you add me to 9, you get 16.

☐

If you add me to 7, you get 16.

☐

If you subtract me from 16, you get 7.

☐

Complete these addition boxes.

+ →		
3	4	
2	5	

+ →		
5	2	
5	3	

+ →		
6	2	
4	4	

+ →		
5		9
3		7

+ →		
	2	8
	6	7

+ →		
4	6	
	3	
9		

Addition practice

Name_____

How many cents left?

Had	Bought		Had	Bought
(5¢)	mints **6¢** ☐ ¢ left		(5¢)	pencil **7¢** ☐ ¢ left
(5¢)(1¢)(1¢)	orange **9¢** ☐ ¢ left		(5¢)(1¢)(1¢)(1¢)(1¢)	balloon **6¢** ☐ ¢ left
(10¢)(1¢)(1¢)(1¢)(1¢)	bow **8¢** ☐ ¢ left		(5¢)(1¢)(1¢)(1¢)(1¢)(1¢)(1¢)	GUM **6¢** ☐ ¢ left
(5¢)(1¢)(1¢)(1¢)(1¢)(1¢)(1¢)	apple **9¢** ☐ ¢ left		(10¢)(1¢)(1¢)(1¢)(1¢)(1¢)(1¢)	gumballs **8¢** ☐ ¢ left

Spending money   (one hundred twenty-seven) **127**

First answer the question.

Then write an equation.

There were 16 fish in one bowl.
Mr. Hart sold 8 of them. How
many are left? _____

$\square \bigcirc \square = \square$

In Mr. Hart's pet shop there are
7 puppies and 9 kittens. How
many puppies and kittens are there
in all? _____

$\square \bigcirc \square = \square$

Mr. Hart uses 6 pounds of bird seed
in a day. How many pounds will he
use in 2 days? _____

$\square \bigcirc \square = \square$

$\square$ sticks

$\square$ sticks

Problem solving

Complete the equations.

$9 + 8 = \square$

$(9 + 1) + 7 = \square$

$8 + 9 = \square$

$(8 + 2) + 7 = \square$

$9 + 9 = \square$

$(9 + 1) + 8 = \square$

$8 + 7 = \square$

$8 + 8 = \square$

$9 + 8 = \square$

$9 + 9 = \square$

$9 + 7 = \square$

$9 + 8 = \square$

$9 + 7 = \square$

$9 + 6 = \square$

$6 + 9 = \square$

$6 + 8 = \square$

$7 + 9 = \square$

$8 + 9 = \square$

Add.

8	8	8	8	8	8	8
+6	6	+7	7	+8	8	+9
	+1		+1		+1	

9	9	9	9	9	9	9
+5	5	+6	6	+7	7	+8
	+1		+1		+1	

9	9	8	7	6	5	4
8	+9	+8	+7	+6	+5	+4
+1						
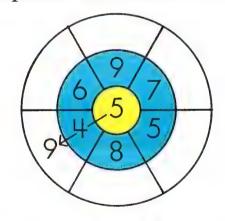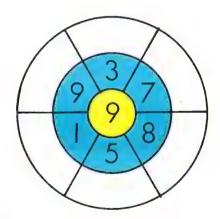
Complete the addition wheels.

☐ ¢   ☐ ¢

Complete these equations.

$17 - 8 = \boxed{}$

$17 - 9 = \boxed{}$

$18 - 9 = \boxed{}$

Subtract.

15	18	14	16	14	13
-8	-9	-7	-9	-5	-5

16	14	16	17	15	14
-7	-6	-8	-8	-9	-8

15	17	13	15	13	13
-6	-9	-4	-7	-8	-7

Here is a secret code.

0	1	2	3	4	5
y	b	n	h	c	e

6	7	8	9	10	11
a	w	o	t	g	m

12	13	14	15	16	17	18
q	n	l	i	d	v	f

Read the message.

10	8
−3	−3
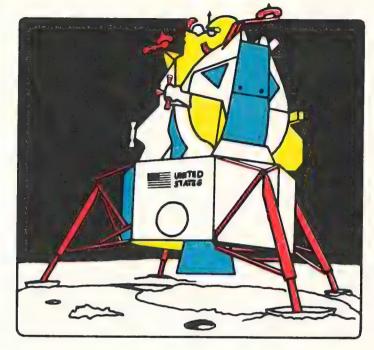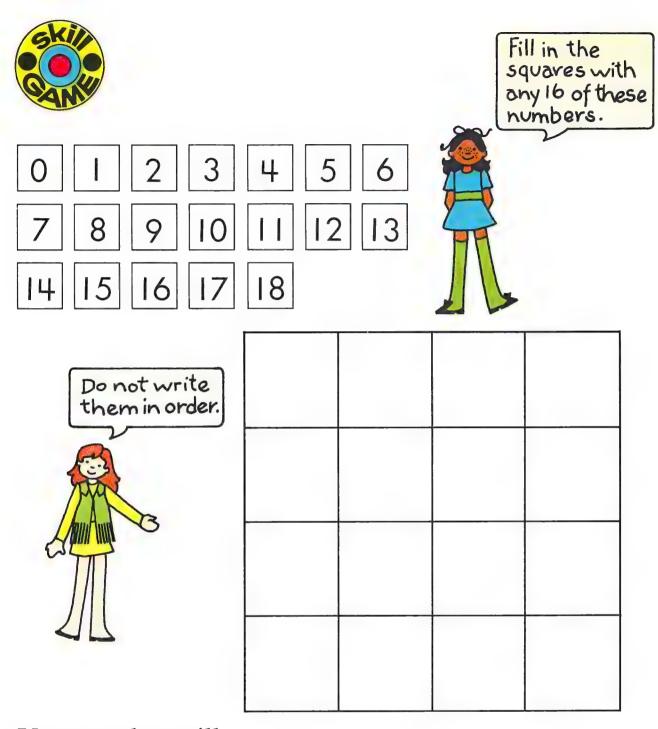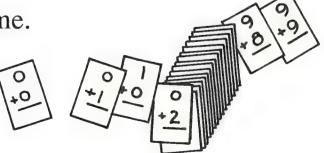
10	3	8	12
−7	+3	+9	−7

11	7	9	8	13	11
−8	+8	+7	+8	−8	−9

4	2	9
+5	+1	−4

4	15	8	10
+6	−7	+6	+6

headline...
❋ NUMBER NEWS ❋
2 + 8 = 10

Tell a story.

Practice—secret code

Here is another code.

8	9	10	11
l	h	n	e

15	16	17	18
g	s	a	d

6 +5	8 +9	9 +6	12 −4	10 +1

16 −7	10 +7	8 +8

15 −7	8 +9	2 +8	9 +9	7 +4	10 +8

Fill in the squares with any 16 of these numbers.

0	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18

Do not write them in order.

Your teacher will explain the game.

Game—addition practice

CHECKUP

Complete these equations.

$8, 9, 17$

$$9 + \boxed{} = 17 \qquad\qquad 8 + \boxed{} = 17$$

$$17 - 9 = \boxed{} \qquad\qquad 17 - 8 = \boxed{}$$

Add.

7	6	9	7	5	8
+4	+6	+6	+9	+6	+4

Subtract.

12	11	13	18	16	14
−3	−5	−8	−9	−7	−7

Write an equation. Answer the question.

Mary had 8 pencils. She gave her sister 3 of them. How many pencils did Mary have then?

_____

Mary had 8 pencils. Her sister gave her 3 more pencils. How many pencils did Mary have then?

_____

Project

My classroom is 21 paces long.

It is 11 paces wide.

1. Measure your classroom.

   _____ paces long   _____ paces wide

2. Now use your shoe.

   _____ shoes long   _____ shoes wide

3. Which question has larger answers,
   question 1 or question 2 ?_____

4. Why did you get different answers? _____

5. Use your pencil to measure your classroom.
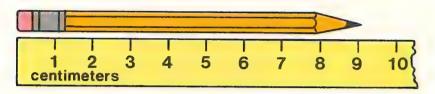
   _____ pencils long   _____ pencils wide

6. Did all the children have the same
   answers to question 5? Why?_____

Name_____

The **centimeter** is a unit for measuring length.

This mark is I centimeter long. —

The pencil is between 9 and I0 centimeters long.
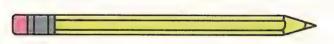
The pencil is about 9 centimeters long.

About how long is each picture?

_____ centimeters

_____ centimeters

_____ centimeters

_____ centimeters

_____ centimeters
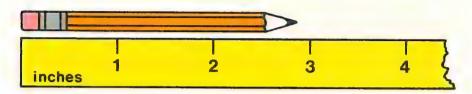
Centimeters

First guess how long.

Then measure.

Fill in each ☐.

Guess: about ☐ centimeters

Measure: about ☐ centimeters

Guess: about ☐ centimeters

Measure: about ☐ centimeters

Guess: about ☐ centimeters

Measure: about ☐ centimeters

Guess: about ☐ centimeters

Measure: about ☐ centimeters

8	9	8	7	7	8
+4	+2	+5	+7	+9	+8

Measurement—centimeters

The **inch** is a unit for measuring length.

This mark is | inch long. _____

The pencil is between 2 and 3 inches long.

The pencil is about 3 inches long.

About how long is each picture?

_____ inches

_____ inches

_____ inches

_____ inches

_____ inches

Inches   (one hundred thirty-nine) 139
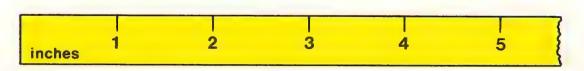
First guess how long.
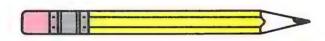
Then measure how long. Fill in each ☐.

Guess: about ☐ inches   Measure: about ☐ inches

Guess: about ☐ inches   Measure: about ☐ inches

Guess: about ☐ inches   Measure: about ☐ inches
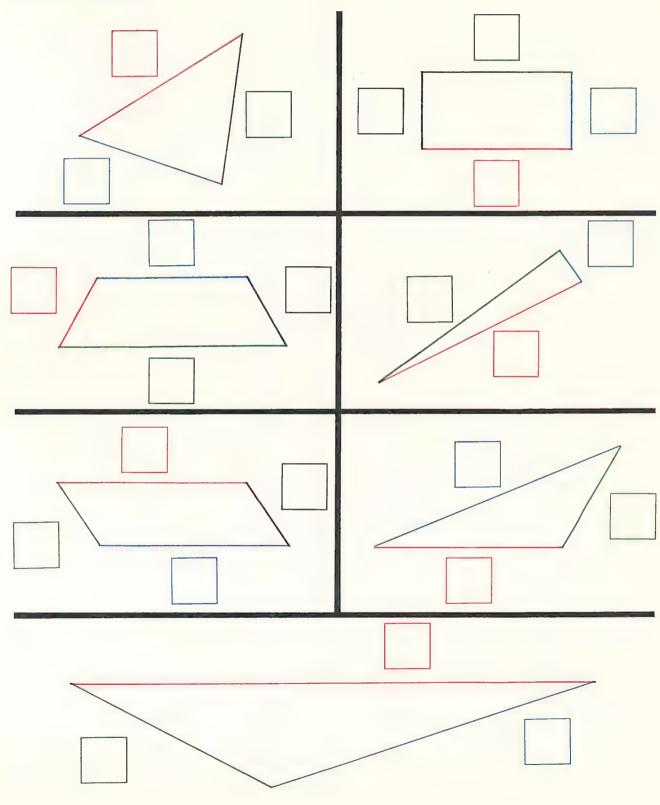
Guess: about ☐ inches   Measure: about ☐ inches

7	9	9	9	6	6
+8	+9	+7	+3	+7	+8

Name
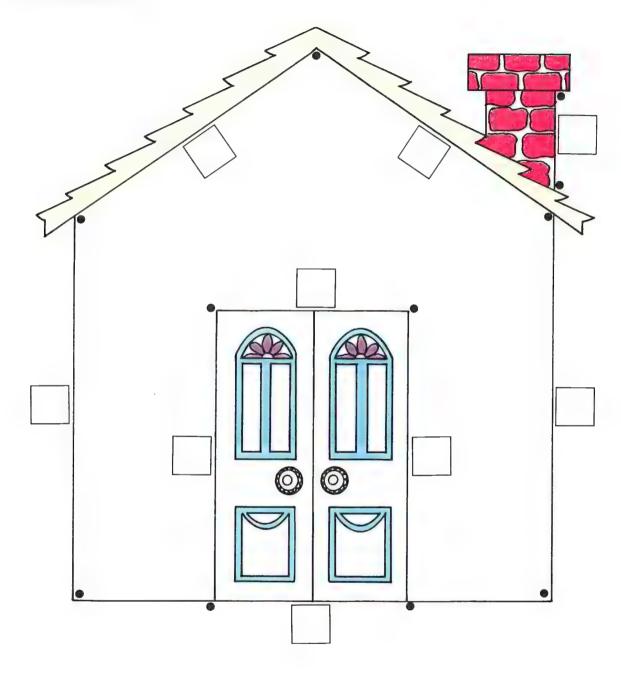
Measure each side in centimeters.
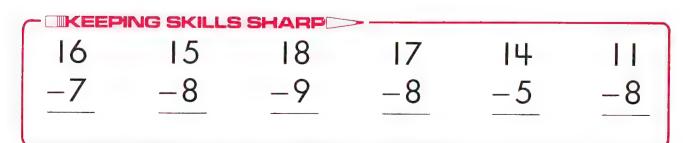
Fill in each □.
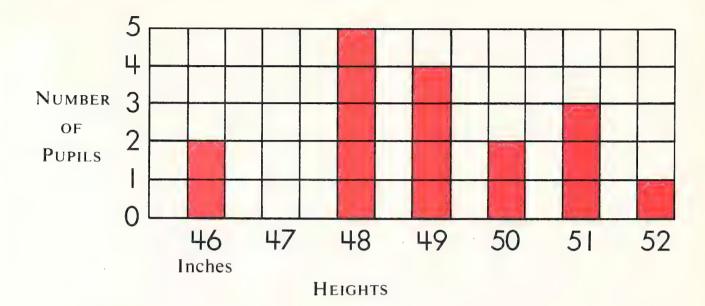
Measure in inches.
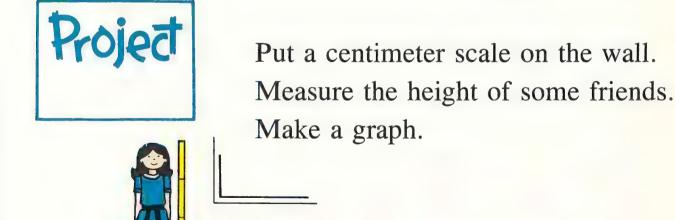
Fill in each ☐.
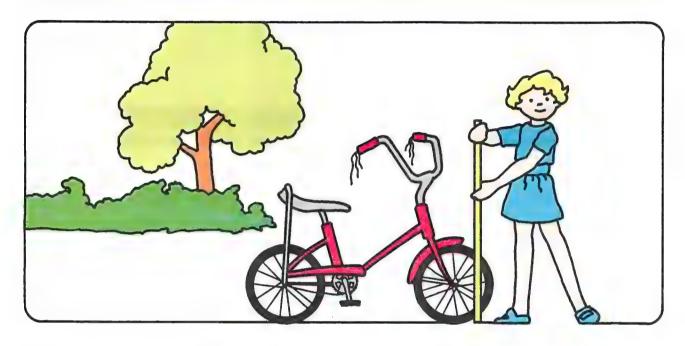
How many pupils are 46 inches tall? _____

How many pupils are 47 inches tall? _____

How many pupils are 48 inches tall? _____

How tall is the tallest pupil? _____

How many children were measured? _____

Project

Put a centimeter scale on the wall.
Measure the height of some friends.
Make a graph.

Get a meter stick.

How many centimeters long is a meter? _____

Make some of these measurements.

Length of classroom

about ☐ meters

Width of classroom

about ☐ meters

Length of playground

about ☐ meters

Width of playground

about ☐ meters

KEEPING SKILLS SHARP

☐ ¢

Measurement—meters
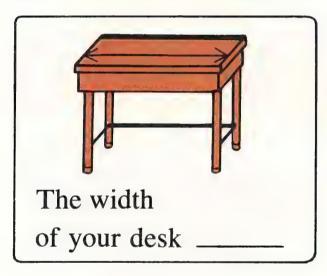
The **foot** is another unit
for measuring length.
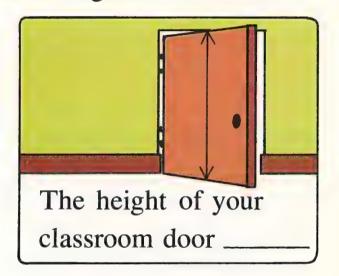
A foot is 12 inches.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
inches

I am 4 feet tall.
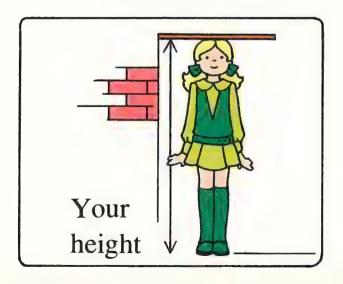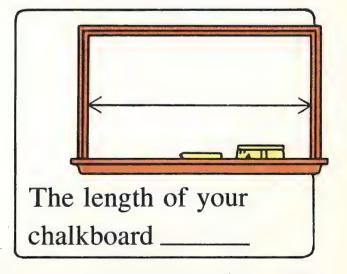
Use a foot ruler. Measure these lengths.

The width
of your desk _____

The height of your
classroom door _____

Your
height _____

The length of your
chalkboard _____

Project Get a foot ruler.

How many inches long is a foot? ____

2 feet = ____ inches

3 feet = ____ inches
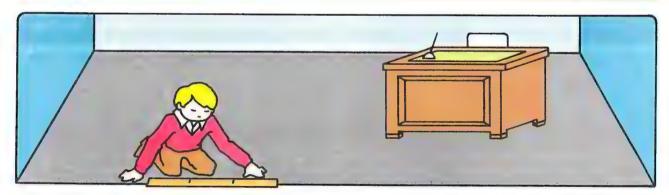
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

INCHES

Get a yard stick.

1 yard = ____ feet

1 yard = ____ inches

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |

INCHES

Make these measurements.

Length of classroom

about ☐ yards

about ☐ feet

Width of classroom

about ☐ yards
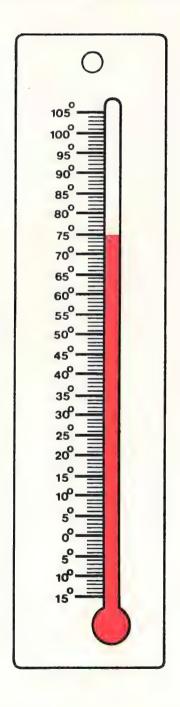
about ☐ feet
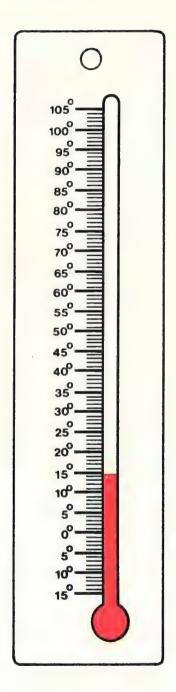
Project—measurement
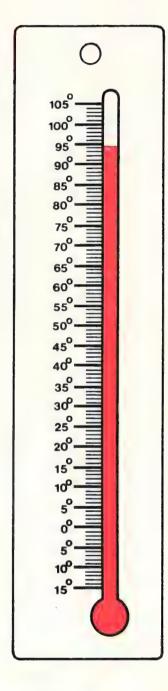
We measure temperature with a **thermometer.**

The unit we use is the degree.
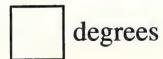
What temperature is shown?
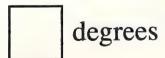
75 degrees   ☐ degrees   ☐ degrees
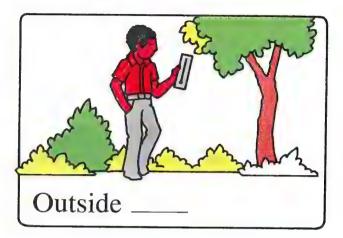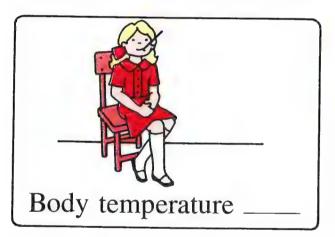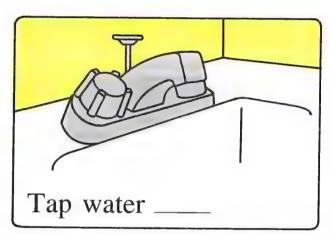
Find these temperatures.

Classroom _____

Outside _____

Body temperature _____

Tap water _____

How many different kinds of thermometers can you find?

Look in buildings, newspapers, cars.

_____   _____   _____

_____   _____   _____

Temperature

Projects

1. Get a paper cup.
2. See how many paper cups of water are needed to fill a 1-**liter** container.
3. How many paper cups of water do you drink in a day? How many liters of water do you drink in a day?
4. How many liters of water do you drink in a week?

Bring some empty cans, bottles, and other containers to school.

Find out how many liters of water each container holds.

Get a half-liter container.

Find out how many half-liters each container holds.
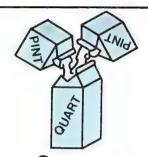
CONTAINER	LITERS	HALF-LITERS
JAR	1	2

2 cups
make 1 pint.

4 cups
make 1 quart

2 pints
make 1 quart.

Loop the same amount.

Name _____

Project
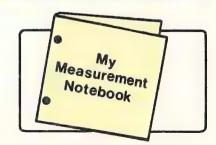
Measure things in your classroom or at home.

Use feet, or inches, or centimeters.

Keep a record here.
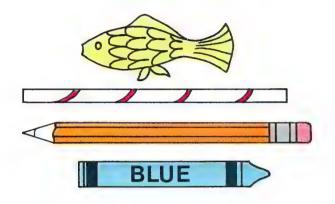
MEASUREMENTS

My math book is about 21 centimeters wide.

_____

_____

_____

_____

_____

Perhaps you would like to make a measurement notebook.

My Measurement Notebook

CHECKUP

About how long is each picture?
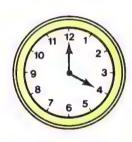
_____ centimeters
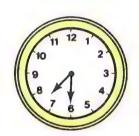
_____ centimeters
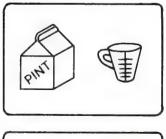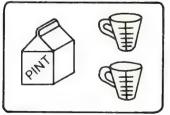
_____ inches
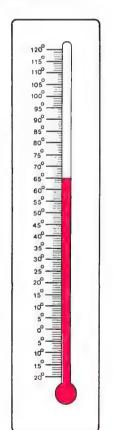
_____ inches

What time is shown?

_____   _____

What temperature is shown?

[ ] degrees

Match.

Chapter checkup

Project
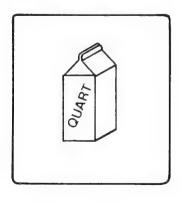
How much do I weigh?

How much do I weigh?

My weight is about _____.

Weigh some classmates.

Keep a record.

Name	Weight

Name	Weight

You may want to graph
what you found.

Add.
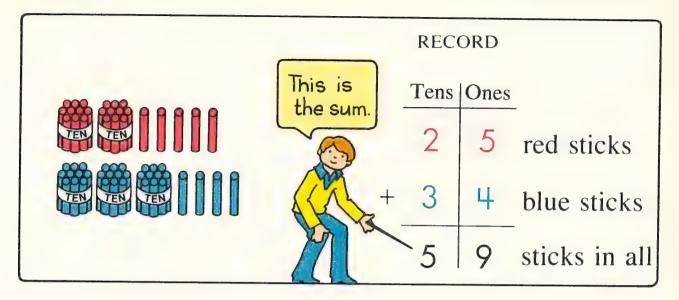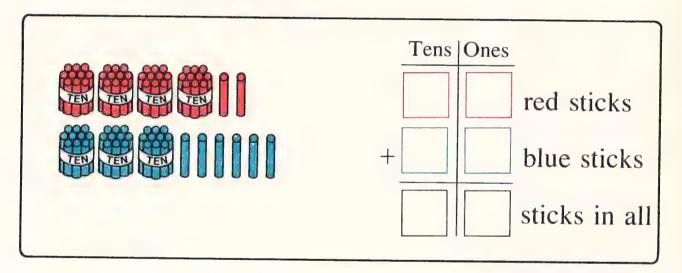
2	3	6	4	8	9
+4	+7	+8	+5	+2	+9

6	7	8	7	4	3
+5	+7	+7	+6	+4	+6

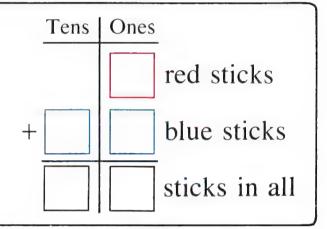|					
4	9	8	9	5	9
+6	+3	+4	+8	+8	+4

Loop the correct number of sticks.

23

23

37

37
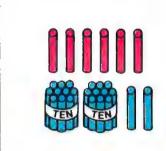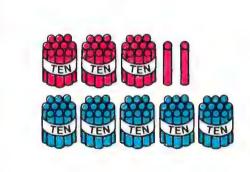
Ready or not?

RECORD

This is the sum.

Tens	Ones	
2	5	red sticks
+ 3	4	blue sticks
5	9	sticks in all

Complete the records.

Tens	Ones	
		red sticks
+		blue sticks
		sticks in all

Tens	Ones	
		red sticks
+		blue sticks
		sticks in all

Complete the records.

RECORD

	Tens	Ones	
	☐	☐	red sticks
+	☐	☐	blue sticks
	☐	☐	sticks in all

	Tens	Ones	
		☐	red sticks
+	☐	☐	blue sticks
	☐	☐	sticks in all

	Tens	Ones	
	☐	☐	red sticks
+	☐	☐	blue sticks
	☐	☐	sticks in all

$$\begin{array}{cccccc} 9 & 8 & 7 & 6 & 7 & 9 \\ +8 & +8 & +6 & +9 & +7 & +9 \\ \hline \end{array}$$

Name _____

Complete the records.

	Tens	Ones	
			red sticks
+			blue sticks
			sticks in all

	Tens	Ones	
			red sticks
+			blue sticks
			sticks in all
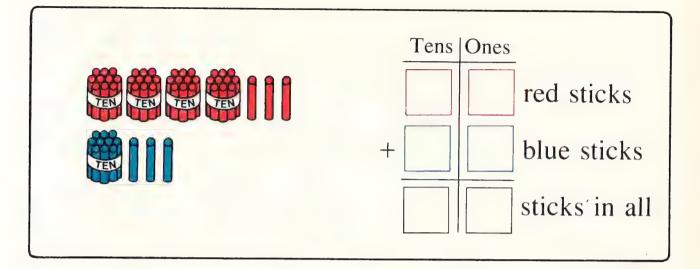
	Tens	Ones	
			red sticks
+			blue sticks
			sticks in all
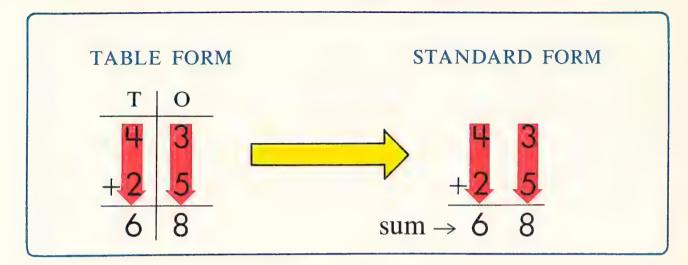
Add.
Use real sticks if you need to.

Tens	Ones
4	2
+3	1

Tens	Ones
2	6
+3	2

Tens	Ones
5	4
+2	3

Tens	Ones
3	4
+5	2

T	O
4	7
+3	0

T	O
2	5
+6	4

T	O
6	4
+2	5

T	O
4	6
+	3

T	O
2	3
+2	1

T	O
5	2
+3	4

T	O
2	5
+3	4

T	O
3	6
+2	0

T	O
5	1
+3	5

T	O
7	0
+2	7

T	O
6	3
+	6

T	O
4	9
+4	0

7	4	8	8	4	3
+5	+8	+9	+7	+9	+8

Adding tens and ones

TABLE FORM	STANDARD FORM

T	O
4	3
+2	5
6	8

sum → 6 8

Add.

51	41	18	31	83	63
+22	+32	+51	+17	+16	+15

34	60	50	27	56	17
+5	+20	+40	+40	+3	+41

58	42	35	28	40	26
+21	+36	+13	+40	+56	+3

42	34	56	23	61	37
+34	+42	+23	+56	+37	+61

Complete these addition boxes.

Box 1:
40	6	46
30	2	32
70	8	78

Box 2:
50	5	
20	4	

Box 3:
60	7	
20	1	

Box 4:
30	4	
50	2	

Box 5:
20	4	
30	5	

Box 6:
10	6	
50	3	

Box 7:
20	3	
70	1	

Box 8:
50	1	
20	4	

Box 9:
40	5	
30	0	

Box 10:
50		51
40		46

Box 11:
	3	43
	5	25

Box 12:
	3	63
10		16

Addition boxes

Loop groups of ten.
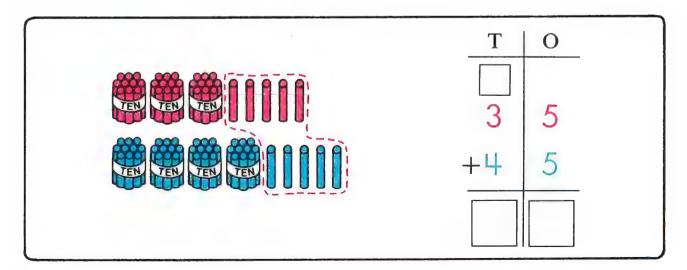
Fill in the table.

Tens	Ones
1	2 sticks

	Tens	Ones		Tens	Ones

	Tens	Ones		Tens	Ones

	Tens	Ones		Tens	Ones

	Tens	Ones		Tens	Ones

Regrouping—ones to tens

(one hundred sixty-three) 163

Complete the records.

12 ones make 1 ten and 2 ones.

5+7=12. That is 1 ten and 2 ones.

RECORD

T	O	
1		
3	5	sticks
+2	7	sticks
6	2	sticks

T	O
☐	
1	6
+2	6
☐	☐

T	O
☐	
3	5
+4	5
☐	☐

Addition records, regrouping

Name

Complete the records.

T	O
⊡	
2	6
+ 1	7
☐	3

T	O
☐	
3	9
+ 1	5
☐	☐

T	O
☐	
5	7
+ 3	5
☐	☐

T	O
☐	
4	3
+ 3	7
☐	☐

Complete the records.

T	O
☐	
5	4
+ 2	7
☐	☐

T	O
☐	
4	8
+ 3	9
☐	☐

T	O
☐	
3	7
+	9
☐	☐

T	O
☐	
2	6
+ 6	8
☐	☐

TABLE FORM

Tens	Ones
☐ 1	
2	7
+ 1	8
4	5

STANDARD FORM

☐ 1

2 7
+1 8

sum → 4 5

Add.

☐
27
+14

☐
72
+19

☐
68
+14

☐
59
+27

4
+13

39
+26

25
+47

47
+25

38
+61

24
+9

39
+24

24
+39

18
+16

9
+77

37
+9

68
+26

26
+8

58
+28

42
+28

37
+7

19
+37

56
+16

18
+56

39
+49

Standard form addition

The costs:
- Candy: 1¢
- Party blower (yellow): 15¢
- Whistle (green): 5¢
- Candy stick (red/white): 4¢
- Party hat: 10¢
- Lollipop (red): 3¢

How much would these cost?

Party hat + whistle = ☐ ¢	Lollipop + whistle = ☐ ¢
Candy stick + lollipop = ☐ ¢	Party blower + candy = ☐ ¢
Party hat + lollipop + party hat = ☐ ¢	Candy stick + whistle = ☐ ¢

Party blower + party blower + lollipop + lollipop + whistle + candy stick + candy stick = ☐ ¢

How much would these cost?

14¢
+ 12¢
___
¢

15¢
+ 13¢
___
¢

62¢
+ 15¢
___
¢

59¢
+ 30¢
___
¢

45¢
+ 36¢
___
¢

49¢
+ 45¢
___
¢

18¢
+ 57¢
___
¢

78¢
+ 9¢
___
¢

0	3								27

Spending money

$$\begin{array}{r} 1 \\ 2\ 3 \\ +1\ 9 \\ \hline 4\ 2 \end{array}$$

Add.

$\begin{array}{r}38\\+27\\\hline\end{array}$	$\begin{array}{r}37\\+28\\\hline\end{array}$	$\begin{array}{r}16\\+9\\\hline\end{array}$	$\begin{array}{r}10\\+27\\\hline\end{array}$	$\begin{array}{r}35\\+53\\\hline\end{array}$	$\begin{array}{r}38\\+56\\\hline\end{array}$
$\begin{array}{r}38\\+38\\\hline\end{array}$	$\begin{array}{r}47\\+26\\\hline\end{array}$	$\begin{array}{r}26\\+47\\\hline\end{array}$	$\begin{array}{r}26\\+56\\\hline\end{array}$	$\begin{array}{r}56\\+26\\\hline\end{array}$	$\begin{array}{r}18\\+67\\\hline\end{array}$
$\begin{array}{r}86\\+9\\\hline\end{array}$	$\begin{array}{r}42\\+39\\\hline\end{array}$	$\begin{array}{r}55\\+23\\\hline\end{array}$	$\begin{array}{r}3\\+18\\\hline\end{array}$	$\begin{array}{r}18\\+63\\\hline\end{array}$	$\begin{array}{r}49\\+36\\\hline\end{array}$

Fill in each □.

$\begin{array}{r}4\ \square\\+5\ 4\\\hline 9\ 9\end{array}$	$\begin{array}{r}6\ \square\\+2\ 9\\\hline 9\ 7\end{array}$	$\begin{array}{r}5\ \square\\+2\ 5\\\hline 8\ 3\end{array}$	$\begin{array}{r}1\ \square\\+7\ 3\\\hline 9\ 0\end{array}$	$\begin{array}{r}\square\ 9\\+1\ 8\\\hline 7\ 7\end{array}$

Fill in each ☐.

Add.

☐	☐	☐	☐	☐	☐
35	29	48	67	44	39
+47	+54	+19	+25	+26	+45

☐		☐	☐	☐	
39	44	71	83	57	73
+5	+21	+19	+9	+26	+21

44	61	21	67	40	28
+27	+34	+14	+19	+20	+56

50	23	61	72	55	39
+7	+47	+19	+8	+25	+39

25	26	27	28	29	30
+25	+26	+27	+28	+29	+30

☐ ¢   ☐ ¢

Addition practice

Name_____

Complete the addition boxes.

20	7	
30	4	

30	4	
10	6	

40	6	
30	7	

50	8	
20	6	

30	4	
50	6	

60	7	
20	9	

20	7	
50	5	

60	8	
10	9	

40	8	
30	7	

30		38
20		29

	6	46
	7	47

50		59
	5	25

You used expanded form in addition boxes.
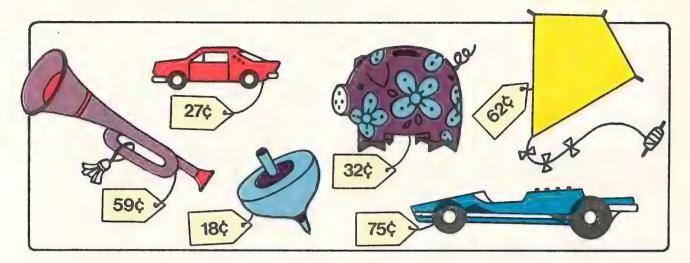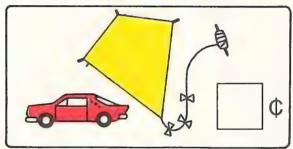
30	7	37
40	4	44
70	11	81

$$30 + 7 = 37$$
$$40 + 4 = 44$$
$$70 + 11 = 81$$

Complete.

$$40 + 6 = 46$$
$$20 + 9 = 29$$
$$\Box + \Box = \Box$$
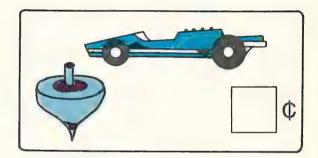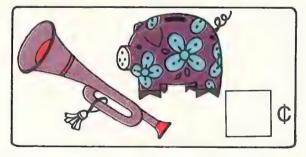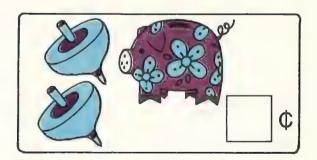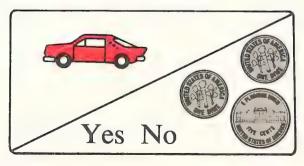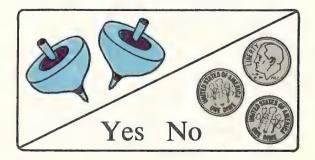
$$50 + \Box = 57$$
$$20 + \Box = 25$$
$$\Box + \Box = \Box$$

$$\Box + \Box = 18$$
$$\Box + \Box = 44$$
$$\Box + \Box = \Box$$

$$\Box + \Box = 38$$
$$\Box + \Box = 57$$
$$\Box + \Box = \Box$$

headline...
✹NUMBER NEWS✹
13 - 9 = 4

Tell a story.

174 (one hundred seventy-four)   Expanded form addition

What is the total price?

 ☐ ¢

 ☐ ¢

 ☐ ¢

 ☐ ¢

Is there enough money?
Loop the answer.

 Yes No

 Yes No

Problem solving

Find the answer.

Write an equation.
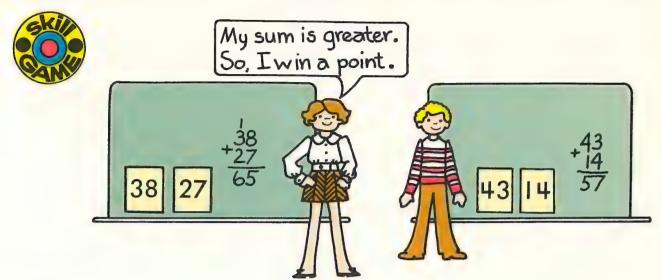
Mark saw 37 airplanes on the ground and 6 in the air. How many did he see in all? _43_

$37 + 6 =$ _____

Mark saw 59 grownups and 12 children waiting for a jet. How many people were there in all? _____

_____
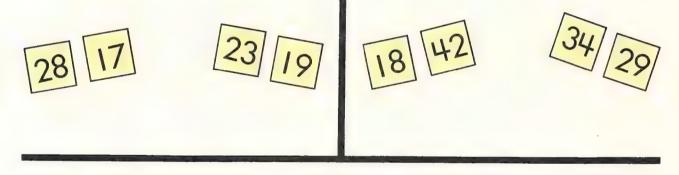
Mary counted 25 trucks. Then she counted 17 other trucks. How many trucks were there in all? _____

_____

Mary saw 39 big jets and 44 small ones. How many jets did she see? _____

_____

Problem solving

My sum is greater. So, I win a point.

$$\begin{array}{r} \overset{1}{38} \\ +27 \\ \hline 65 \end{array}$$

38 27

$$\begin{array}{r} 43 \\ +14 \\ \hline 57 \end{array}$$

43 14
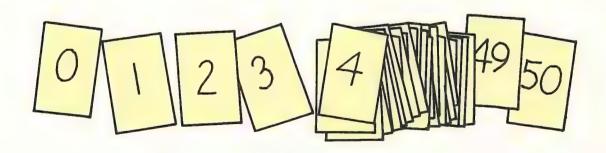
Add.

Then loop the greater sum.

28 17

23 19

18 42

34 29

Make these cards.

0 1 2 3 4 49 50

Your teacher will explain the game.
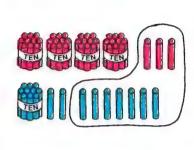
CHECKUP

Complete each addition record.

	Tens	Ones
	3	2
+	2	5

	Tens	Ones
	4	3
+	1	9

Fill in each ☐.

$$40 + 5 = 45$$
$$+20 + 3 = +23$$
$$\boxed{} + \boxed{} = \boxed{}$$

$$60 + 8 = 68$$
$$+10 + 6 = +16$$
$$\boxed{} + \boxed{} = \boxed{}$$

Add.

45	74	12	59	63	28
+32	+20	+54	+34	+28	+63

How many cents?

☐ ¢   ☐ ¢

Project 1

How many little squares?

 ⟶ _____ square

 $\begin{matrix}1\\2\end{matrix}$ _____ squares

 $\begin{matrix}1\\2\\3\end{matrix}$ _____ squares

 _____ squares

 _____ squares

 _____ squares

Project 2
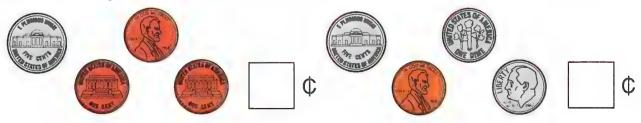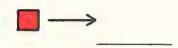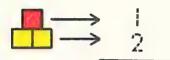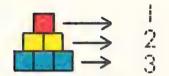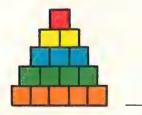
How many little squares?

 _____ square

 _____ squares

 _____ squares

 _____ squares

 _____ squares

 _____ squares

Subtract.

8	6	9	8	9	7
−4	−2	−3	−0	−5	−3

12	11	10	15	18	17
−4	−3	−2	−7	−9	−8

14	16	13	13	10	10
−7	−9	−7	−5	−3	−5
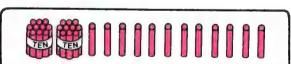
Match sets with the same number of sticks.

Ready or not?
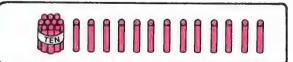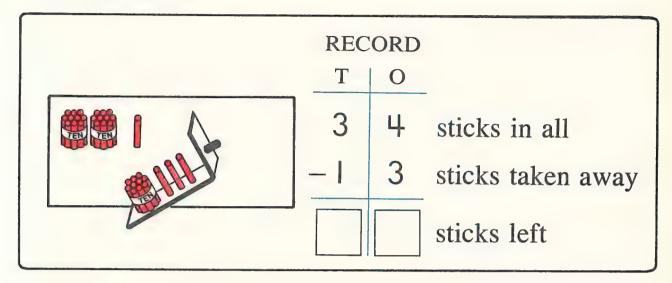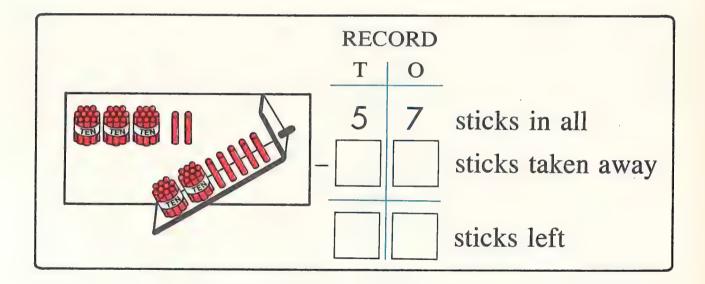
Name_____

Fill in each ___.

How many sticks? __45__

        Cross off   21

How many left? __24__

How many sticks? ____

        Cross off   32

How many left? ____

How many sticks? ____

        Cross off   13

How many left? ____

How many sticks? ____

        Cross off   4

How many left? ____

How many sticks? ____

        Cross off   20

How many left? ____

Fill in the blanks.

How many sticks? ____
Cross off 17
How many left? ____

How many sticks? ____
Cross off 44
How many left? ____

How many sticks? ____
Cross off 32
How many left? ____

How many sticks? ____
Cross off 26
How many left? ____

How many sticks? 47
Cross off 21
How many left? ____

How many sticks? 63
Cross off 32
How many left? ____

centimeters

☐ cm

Subtraction

Name_____

Fill in each □.

RECORD

T	O	
3	4	sticks in all
−1	3	sticks taken away
□	□	sticks left

RECORD

T	O	
5	7	sticks in all
− □	□	sticks taken away
□	□	sticks left

T	O
5	6
−3	1
□	□

T	O
3	8
−2	2
□	□

T	O
4	7
−2	5
□	□

T	O
6	5
−4	0
□	□

TABLE FORM

T	O
3	7
−1	2
2	5

STANDARD FORM

$$\begin{array}{r} 3\ 7 \\ -1\ 2 \\ \hline 2\ 5 \end{array} \leftarrow \text{difference}$$

Subtract.

56 −24	38 −15	47 −12	29 −15	67 −25	48 −32
68 −33	75 −42	98 −3	57 −25	89 −26	75 −30
46 −26	53 −23	74 −40	87 −50	68 −35	95 −33
60 −20	95 −42	57 −3	99 −74	48 −13	76 −36

KEEPING SKILLS SHARP

☐ ¢   ☐ ¢
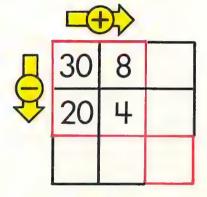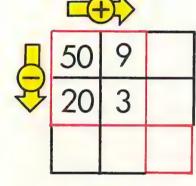
Fill in these addition-subtraction boxes.
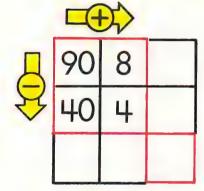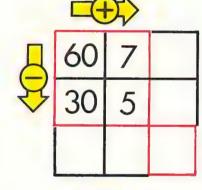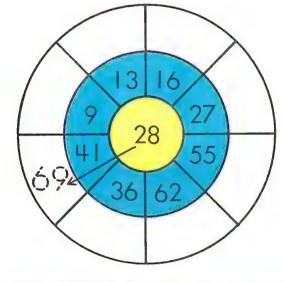
+ →		
5	2	7
3	1	4
2	1	3

+ →		
6	3	
4	2	

+ →		
9	7	
5	3	

+ →		
30	8	
20	4	

+ →		
50	9	
20	3	

+ →		
60	5	
40	2	

+ →		
90	8	
40	4	

+ →		
60	7	
30	5	

+ →		
80	6	
10	3	

+ →		
70	5	
30	2	

+ →		
90	8	
60	3	

+ →		
80	5	
50	1	

Addition-subtraction boxes

Add.

38	38	38	38	38	38
+6	+16	+26	+36	+46	+56

29	29	29	29	29	29
+7	+17	+27	+37	+47	+57

43	43	43	43	43	43
+9	+19	+29	+39	+49	+59

Complete the addition wheels.

0	3	6			18			

Addition practice

ERASER 1¢

PAPER DOLLS 27¢

CRAYONS 25¢

COLORING BOOK 33¢

5¢

10¢

What is the total price?

☐ ¢

☐ ¢

☐ ¢

☐ ¢

Is there enough money?

Loop the answer.

yes   no

yes   no

Equation
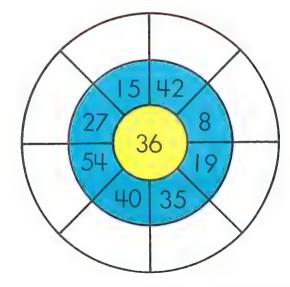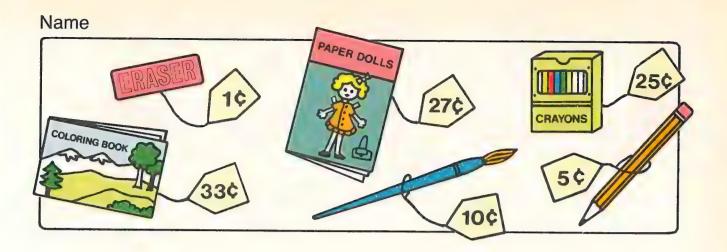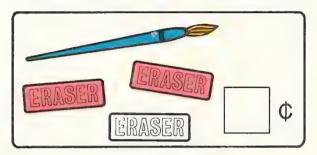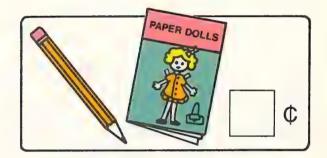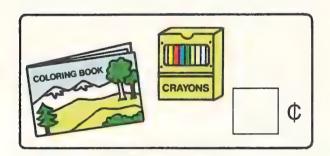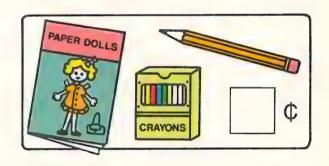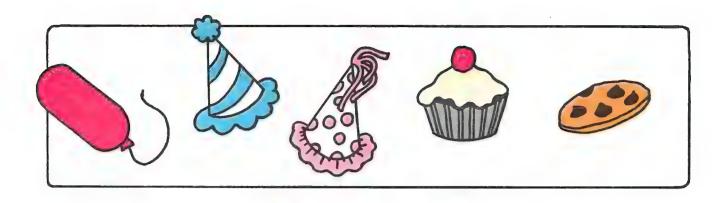
1. There were 16 🎩 and 25 🎉.
   How many hats in all? ____ _____

2. There were 43 🎈.
   12 were broken.
   How many 🎈 left? ____ _____
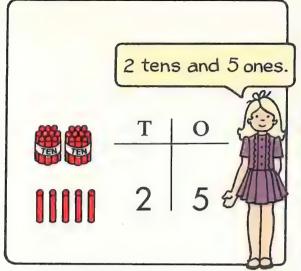
3. The children ate 28 🧁 and 17 🍪.
   How many 🧁 and 🍪 did
   they eat in all? ____ _____
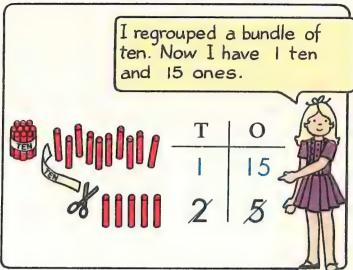
4. At the party there were 20 girls
   and 18 boys. How many more
   girls than boys? ____ _____

0	5				25				

Problem solving

Name_____

2 tens and 5 ones.

T	O
2	5

I regrouped a bundle of ten. Now I have 1 ten and 15 ones.

T	O
1	15
2	5

Fill in each □.

T	O
1	□
2	2

T	O
□	□
3	9

T	O
□	□
3	5

Regrouping tens to ones

Subtraction with regrouping
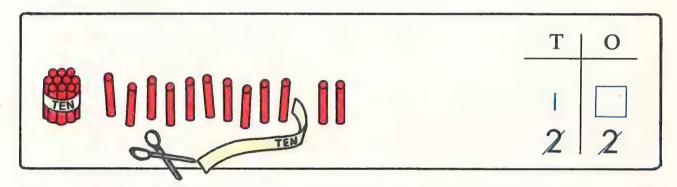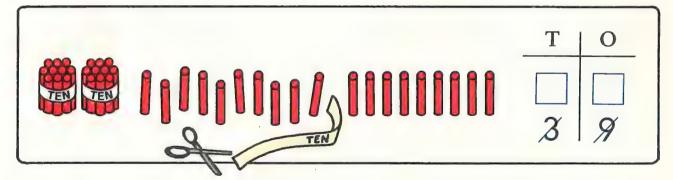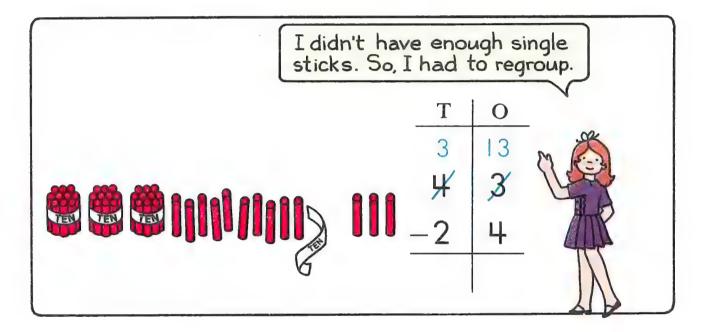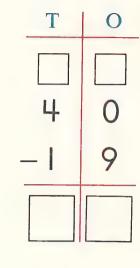
Name _____

Fill in each □.

T	O
□	□
6	2
−3	5
□	□

T	O
□	□
4	2
−1	8
□	□

T	O
□	□
8	1
−3	6
□	□

T	O
□	□
4	0
−1	9
□	□

T	O
□	□
5	5
−	7
□	□

T	O
□	□
4	3
−3	5
□	□

T	O
□	□
6	0
−2	3
□	□

T	O
□	□
7	3
−	9
□	□

Subtract.

T	O
6	3
−2	5

T	O
3	7
−1	8

T	O
5	8
−2	9

T	O
5	0
−3	1

TABLE FORM	STANDARD FORM

TABLE FORM

T	O
5	13
6̶	3̶
−2	8
3	5 ← Difference

STANDARD FORM

```
    5   13
    6̶    3̶
 −  2    8
 ─────────
    3    5  ← Difference
```

Subtract.

38	65	32	45	49	35
− 17	− 38	− 15	− 22	− 27	− 19

83	92	64	79	81	50
− 46	− 38	− 56	− 26	− 35	− 24

39	65	74	43	60	75
− 18	− 33	− 27	− 25	− 58	− 67

0	4	8						32	

Add.

35	62	58	29	33	18
+24	+17	+36	+45	+59	+67

24	26	26	14	45	48
+32	+53	+39	+67	+29	+29

Subtract.

56	74	38	95	67	46
−23	−52	−11	−62	−37	−15

61	82	55	73	90	54
−29	−58	−36	−57	−43	−18
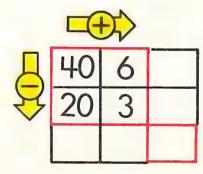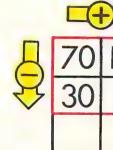
Fill in the addition-subtraction boxes.

40	6	
20	3	

70	13	
30	8	

50	17	
20	9	

Here is a code.

A	B	C	E	F
25	17	19	38	77

H	I	L	M	N
59	63	48	6	1

R	S	T	U	Y
0	10	93	45	83

Add or subtract.

Find the secret words.

30	23
− 13	+ 15
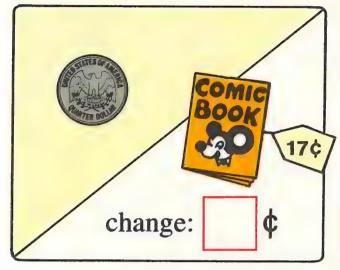
25	50	17	50	91	28	29
− 6	− 25	− 17	− 12	− 14	+ 17	+ 19
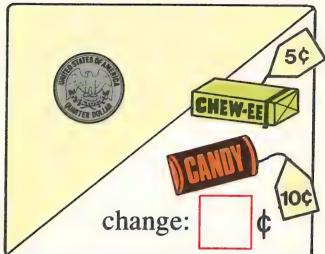
77	77	30
+ 16	− 18	+ 8

29	57	53	15	99
+ 9	− 56	− 15	− 9	− 16

45	90
+ 18	− 80

1	94	91	77
+ 0	− 56	− 66	− 77

Practice—secret code

How much change?

COMIC BOOK 17¢

change: ☐ ¢

5¢ CHEW-EE CANDY 10¢

change: ☐ ¢

Magazine 35¢

change: ☐ ¢

39¢ COLA

change: ☐ ¢

59¢

change: ☐ ¢

79¢

change: ☐ ¢

My difference is greater. So, I win a point.

$$\begin{array}{r} 48 \\ -23 \\ \hline 25 \end{array}$$

48 23

$$\begin{array}{r} 311 \\ \cancel{4}\cancel{1} \\ -18 \\ \hline 23 \end{array}$$

41 18
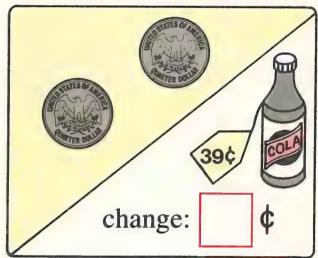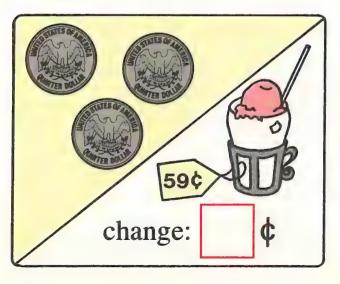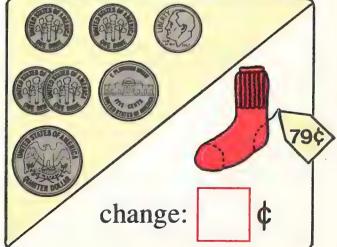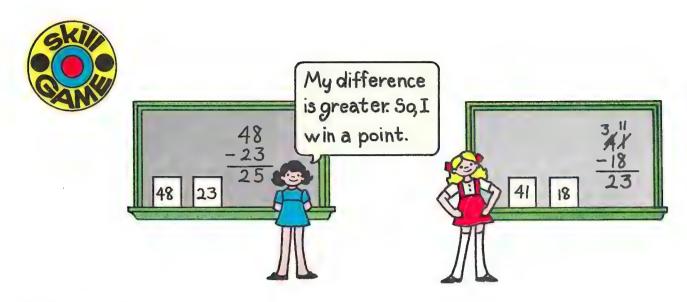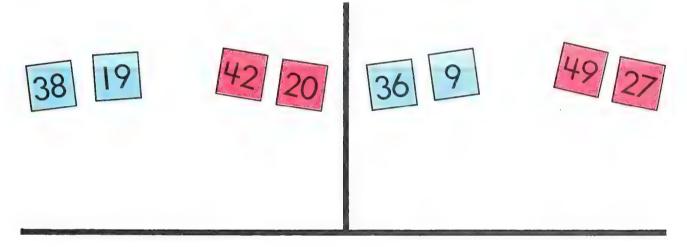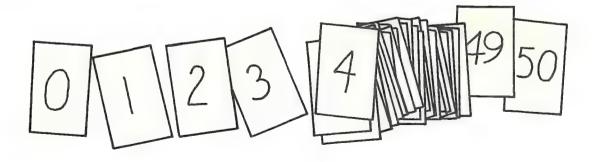
Subtract.

Then loop the greater difference.

38 19   42 20 | 36 9   49 27

Make these cards.

0 1 2 3 4 ... 49 50

Your teacher will
explain the game.

CHECKUP

Complete the subtraction record.

Tens	Ones
4	6
− 1	3

Subtract.

68	75	49	35	73	50
−32	−21	−30	−18	−36	−49

53	81	93	72	40	86
−29	−47	−38	−59	−24	−36

CANDY 63¢   cookies 39¢   ORANGE 15¢

How much more does a cookies cost than a ORANGE ? ☐ ¢

How much more does a CANDY cost than a ORANGE ? ☐ ¢

How much more does a CANDY cost than a cookies ? ☐ ¢

Project
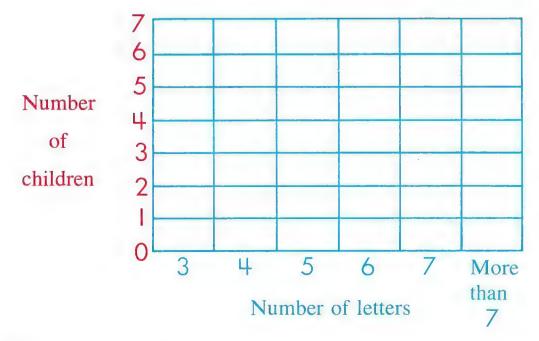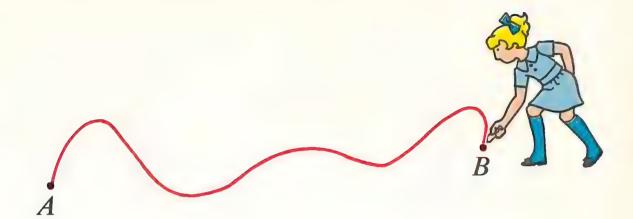
Count the letters in your first name.

Count the letters in the names of the other children in your class. Make tally marks in the boxes.

3 letters	4 letters	5 letters
6 letters	7 letters	more than 7

Complete the bar graph.

Number of children

```
7
6
5
4
3
2
1
0
   3   4   5   6   7  More
                       than
                        7
     Number of letters
```

Bar graph

Jane drew a path from point *A* to point *B*.
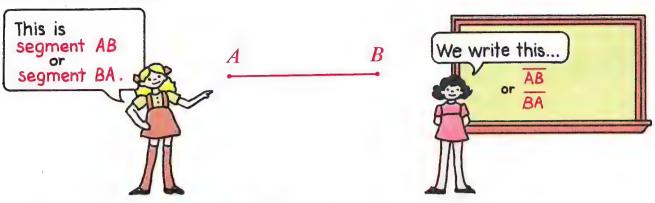
I. Draw a path longer than Jane's path
between point *A* and point *B*.

2. Now draw any other path from
point *A* to point *B*.

3. Draw the shortest path from
point *A* to point *B*.

Y

X

Draw the shortest path from point *X* to point *Y*.

The shortest path between two points
is called a **segment.**

This is
segment AB
or
segment BA.

A ————————— B

We write this...

$\overline{AB}$
or
$\overline{BA}$
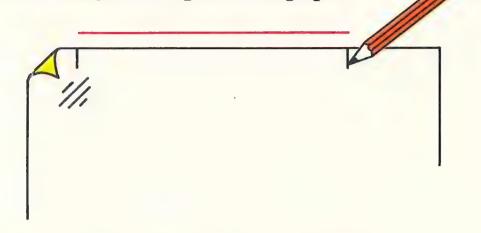
Point *A* and point *B* are called **end points.**

Draw $\overline{AB}$, $\overline{BC}$, $\overline{CD}$, $\overline{DA}$.

A.   . B

D•   •C

Draw $\overline{RT}$, $\overline{SU}$, $\overline{RU}$, $\overline{ST}$.

R.   .S

U•   •T

Draw $\overline{EF}$, $\overline{FG}$, $\overline{GH}$, $\overline{HI}$,
$\overline{IE}$.
                F•

E •   •G

I•   •H

Draw $\overline{VX}$, $\overline{XZ}$, $\overline{ZW}$, $\overline{WY}$,
$\overline{YV}$.
                W•

V •   • X

Z •   •Y

75	96	87	58	93	80
−23	−42	−20	−39	−27	−46
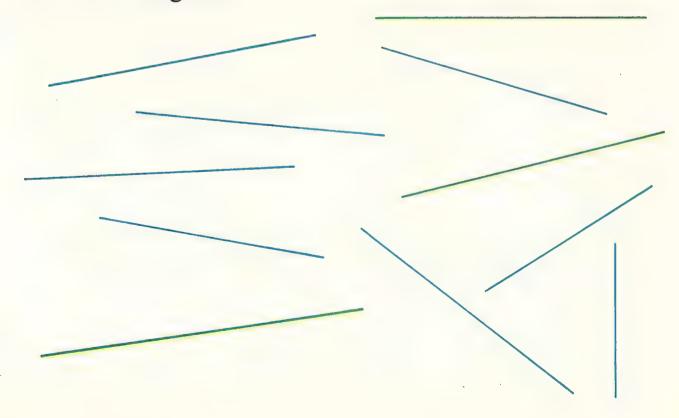
Mark the length of this red segment
on the edge of a piece of paper.
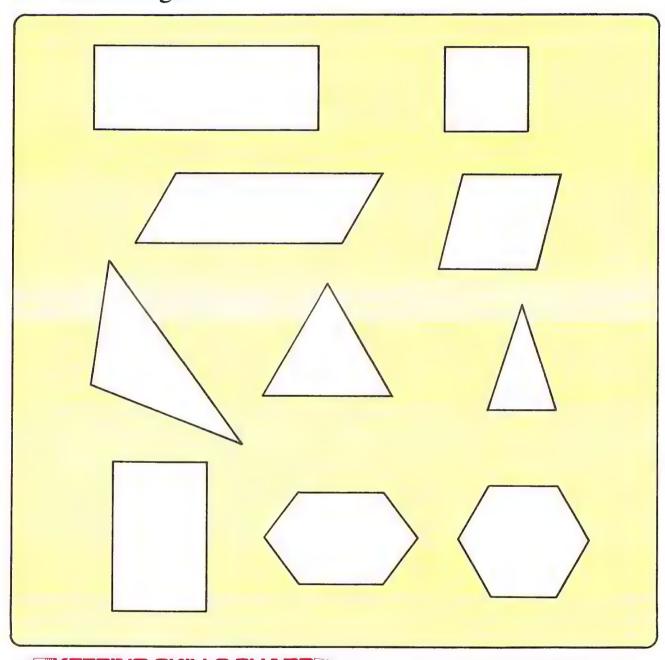
Use the piece of paper to help you.

Mark each segment that is just as long
as the red segment.
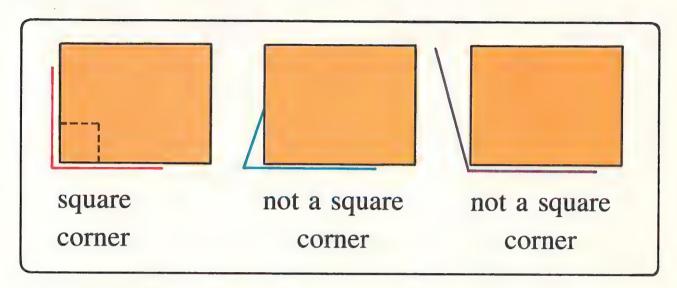
The **sides** of some figures are segments.
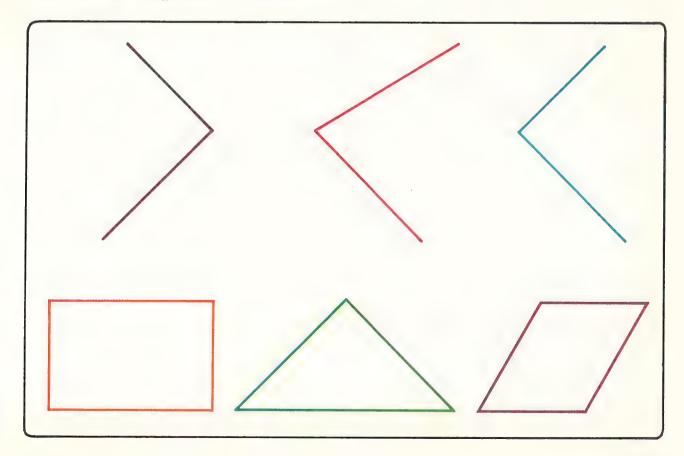
Mark the figures that have all sides
the same length.

204 (two hundred four)

Sides of figures

You can use a card to tell if a corner
is a **square corner.**

square
corner

not a square
corner

not a square
corner
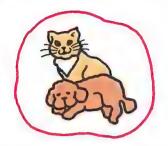
Mark the square corners.
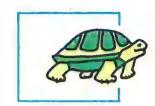
These curves are closed.	These curves are not closed.
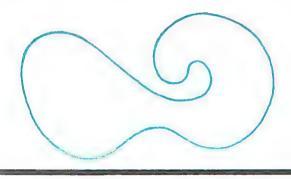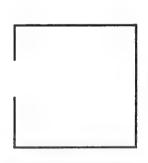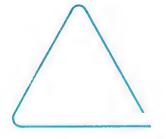
Mark the closed curves.

$<$, $=$, or $>$?

26 ◯ 13 + 12   52 − 14 ◯ 46
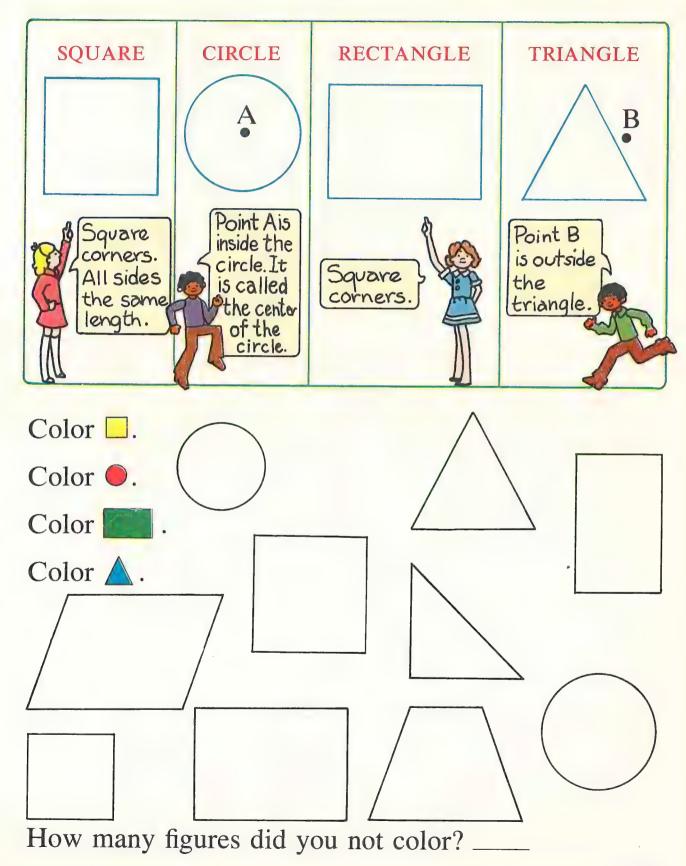
Here are some simple closed curves.

SQUARE	CIRCLE	RECTANGLE	TRIANGLE

Square corners. All sides the same length.

Point A is inside the circle. It is called the center of the circle.

Square corners.

Point B is outside the triangle.

Color ▢.

Color ●.

Color ▭.

Color ▲.

How many figures did you not color? _____
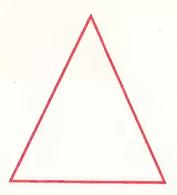
square

rectangle

_____

_____

_____

_____

_____

_____

_____

_____

circle

triangle

_____

_____

_____

_____

_____

_____

_____

_____

KEEPING SKILLS SHARP

[ ] ¢

[ ] ¢
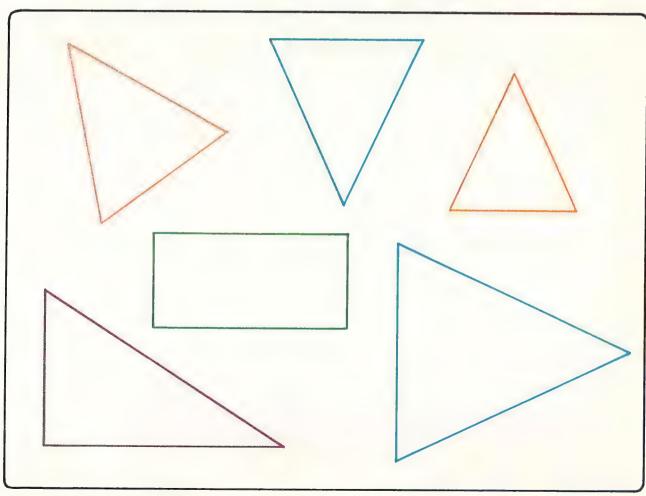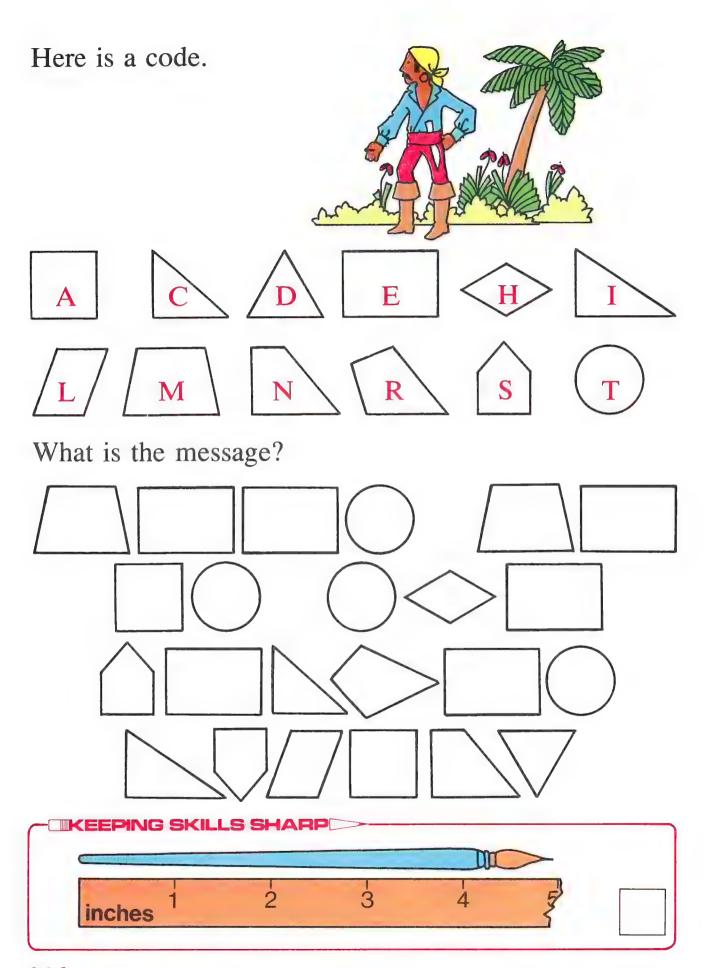
Carefully trace this triangle.
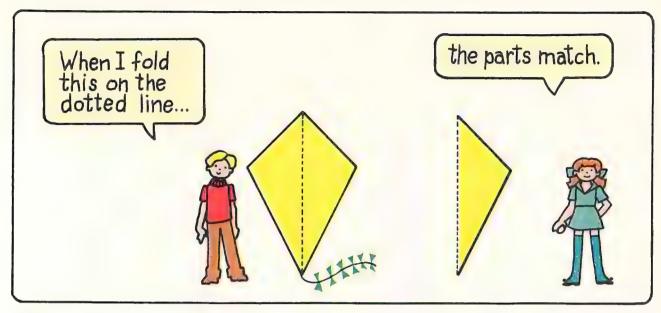
Use your tracing.
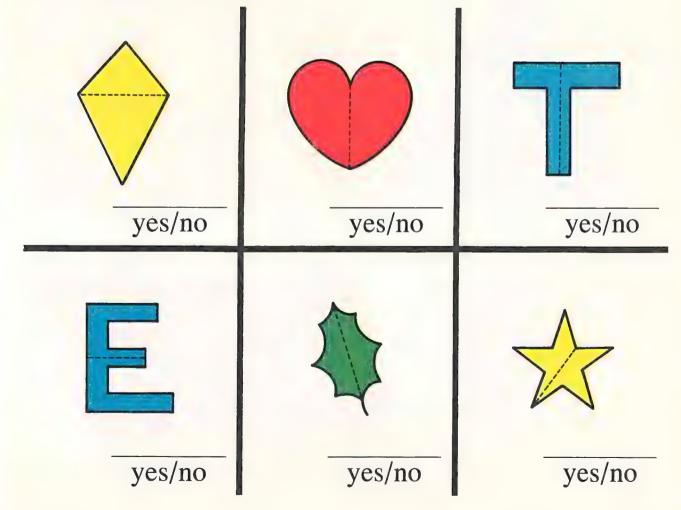
Mark the figures that fit the red triangle.

Here is a code.

A (square) C (triangle) D (triangle) E (rectangle) H (diamond) I (triangle)

L (parallelogram) M (trapezoid) N (quadrilateral) R (quadrilateral) S (pentagon) T (circle)

What is the message?

KEEPING SKILLS SHARP

inches   1   2   3   4   5

When I fold this on the dotted line...

the parts match.

If you fold on the dotted line,
will the parts match?

yes/no	yes/no	yes/no
yes/no	yes/no	yes/no

Symmetry

Project
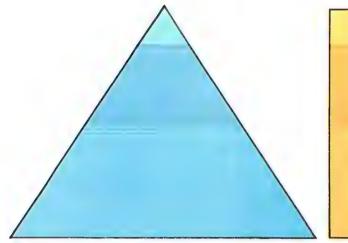
First cut out these figures.
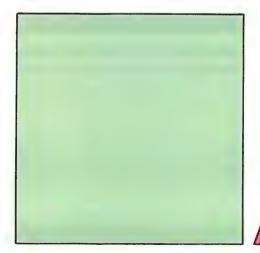
Then see how many ways you can fold them so the parts match.

Project—symmetry
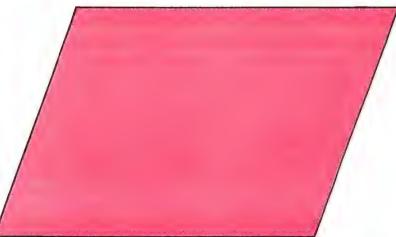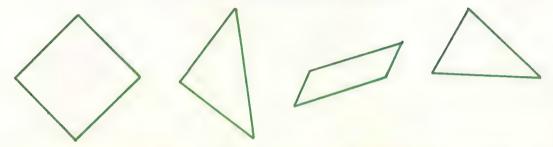
CHECKUP
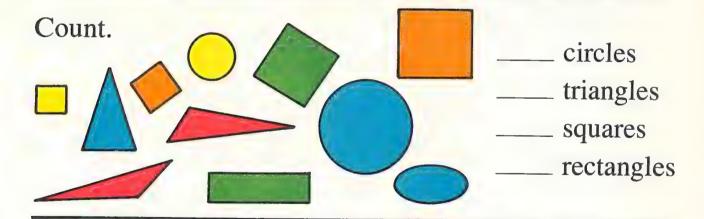
Mark the segment that is the same
length as segment *AB*.

A————————*B*

Mark all square corners.
Use a card that has a square corner.
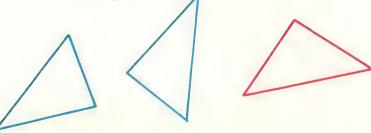
Count.

_____ circles
_____ triangles
_____ squares
_____ rectangles

Mark the triangle that fits this triangle:

Use a tracing.

Project 1
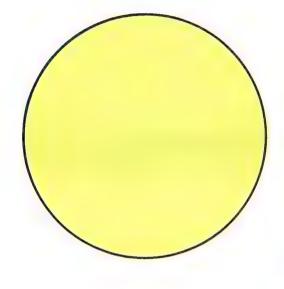
First cut out this circle.
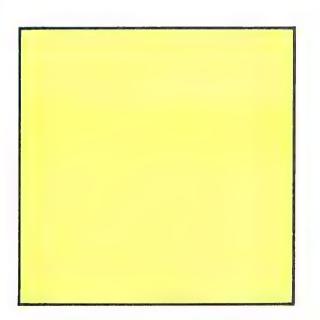
Then find the center of the circle by folding it.

Project 2
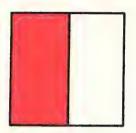
First cut out this square.
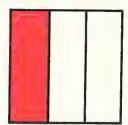
Then find the center of the square by folding it.

Projects
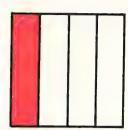
$\frac{1}{2}$ is red.
one half
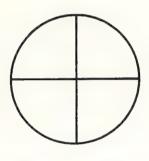
$\frac{1}{3}$ is red.
one third
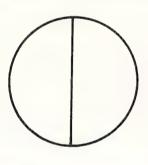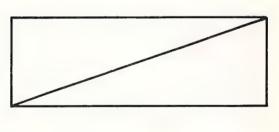
$\frac{1}{4}$ is red.
one fourth
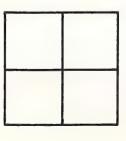
$\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$ are **fractions.**

Color.
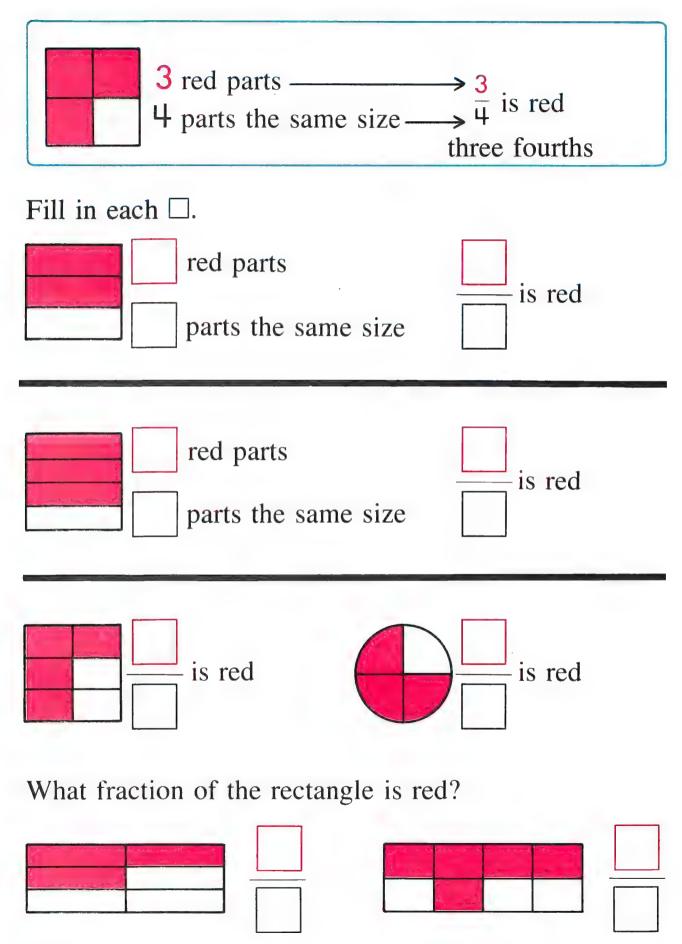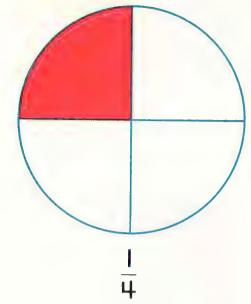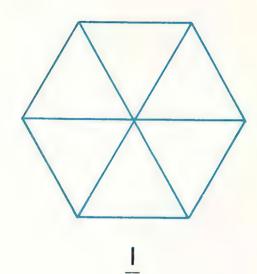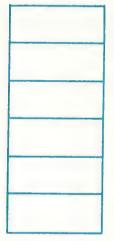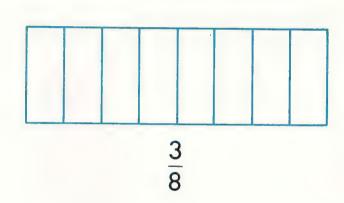
$\frac{1}{4}$

$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{2}$

$\frac{1}{4}$

$\frac{1}{3}$

Introducing $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$

3 red parts ⟶ 3

4 parts the same size ⟶ $\frac{3}{4}$ is red

three fourths

Fill in each ☐.

 ☐ red parts

☐ parts the same size

$\frac{\square}{\square}$ is red

 ☐ red parts

☐ parts the same size

$\frac{\square}{\square}$ is red

 $\frac{\square}{\square}$ is red

 $\frac{\square}{\square}$ is red

What fraction of the rectangle is red?

 $\frac{\square}{\square}$

 $\frac{\square}{\square}$

Fractions—regions

Color.

$\frac{1}{4}$

$\frac{1}{6}$

$\frac{5}{6}$

$\frac{3}{8}$

$\frac{3}{4}$

$\frac{2}{3}$

$\frac{2}{2}$

Fractions—regions

$\frac{3}{5}$ blue

$\frac{2}{5}$ red

$\frac{5}{8}$ blue

$\frac{3}{8}$ red

Give the fraction.

☐／☐ blue

☐／☐ red

☐／☐ blue

☐／☐ red

☐／☐ blue

☐／☐ red

☐／☐ blue

☐／☐ red

headline...

★ NUMBER NEWS ★

23 + 12 = 35

Tell a story.

Fractions—regions

Name _____
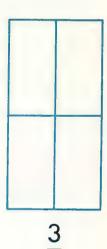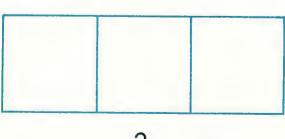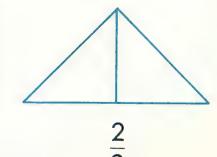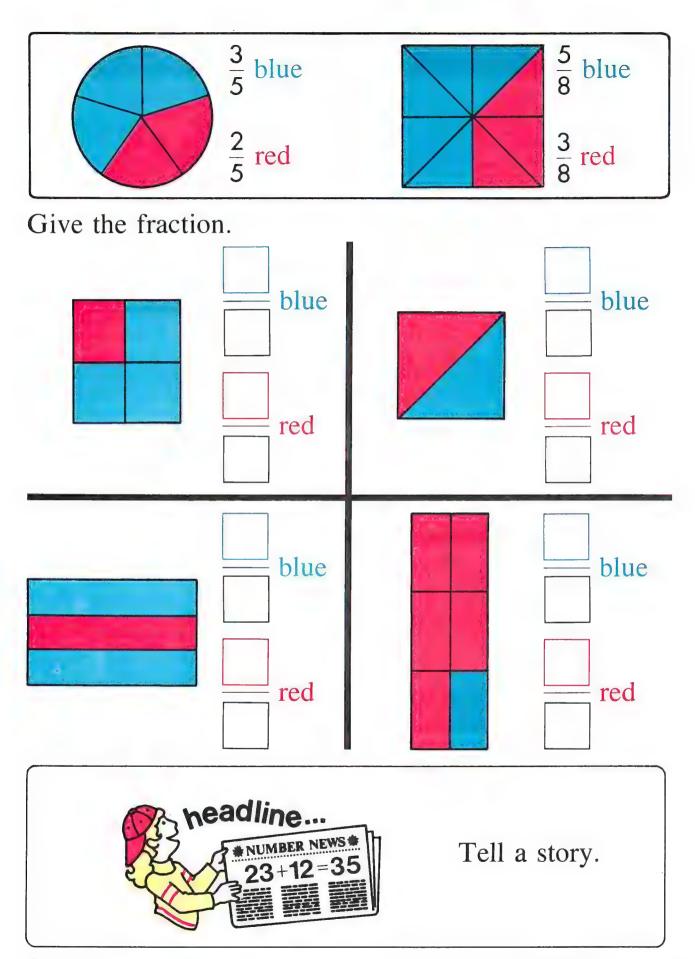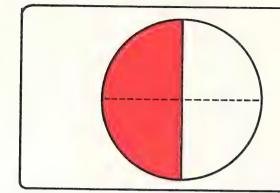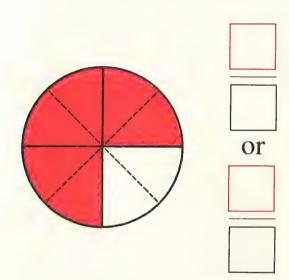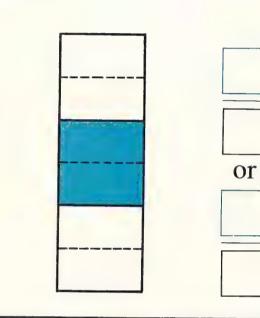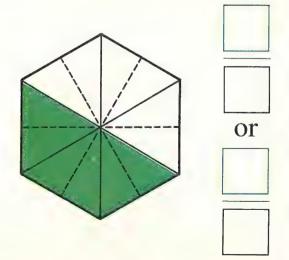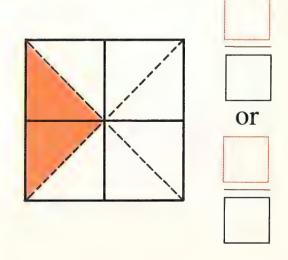
$\frac{1}{2}$ is shaded
or
$\frac{2}{4}$ is shaded

Give 2 fractions for the shaded part.

Give 2 fractions for the shaded part.

or

or

or

or

Tell a story.

quarter **past** 3

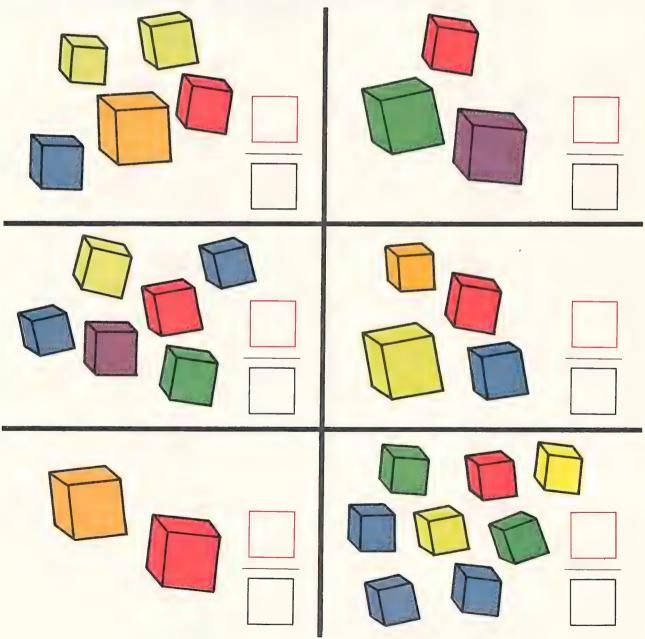quarter **to** 3
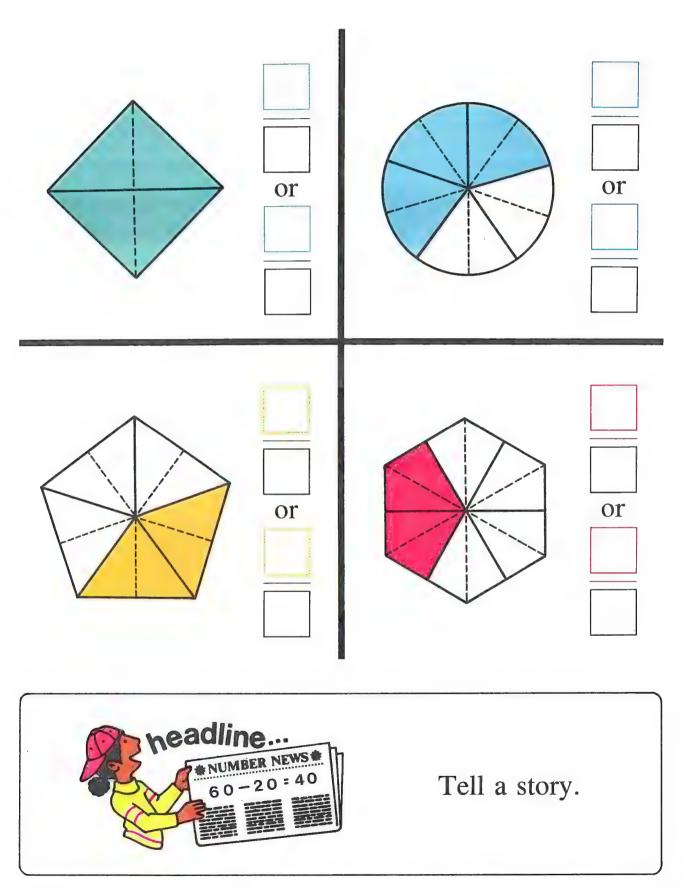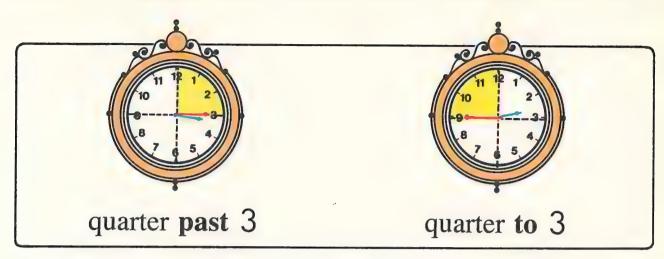
Complete.

quarter _____ 4

quarter _____ 4

quarter past ☐

quarter to ☐

quarter _____ ☐

quarter _____ ☐

Give the time.

quarter _____ ☐

quarter _____ ☐

quarter _____ ☐

quarter _____ ☐

quarter _____ ☐

quarter _____ ☐

quarter _____ ☐

quarter _____ ☐

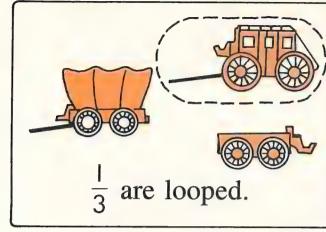☐ ¢

☐ ¢

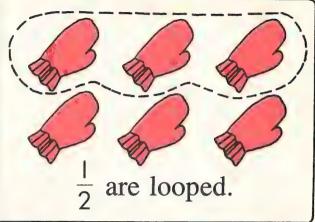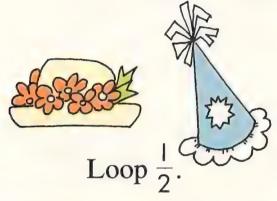There is 1 red block. $\frac{1}{7}$ of the blocks are red.

There are 7 blocks in all.
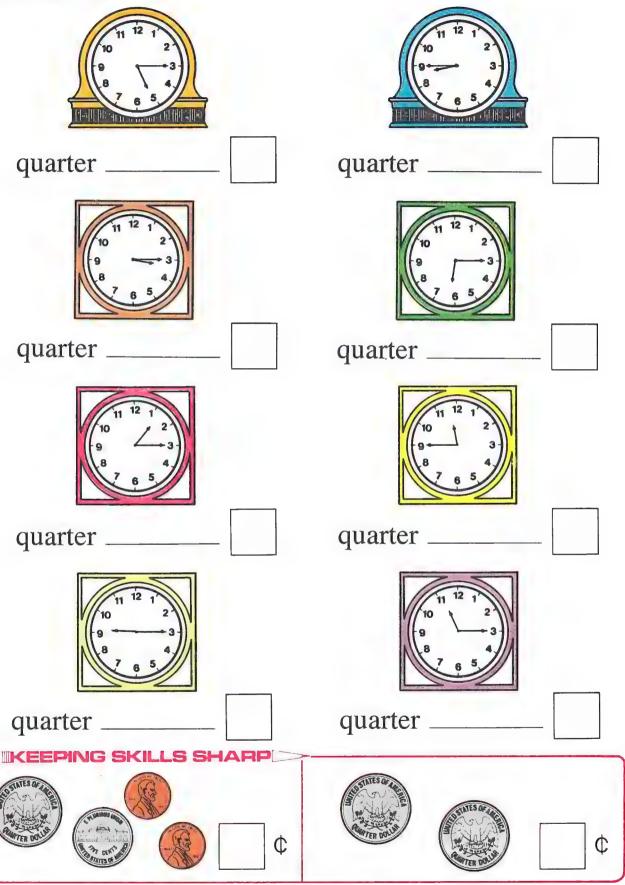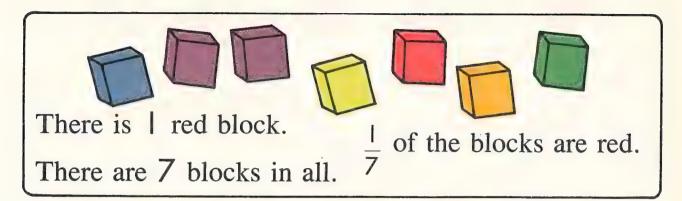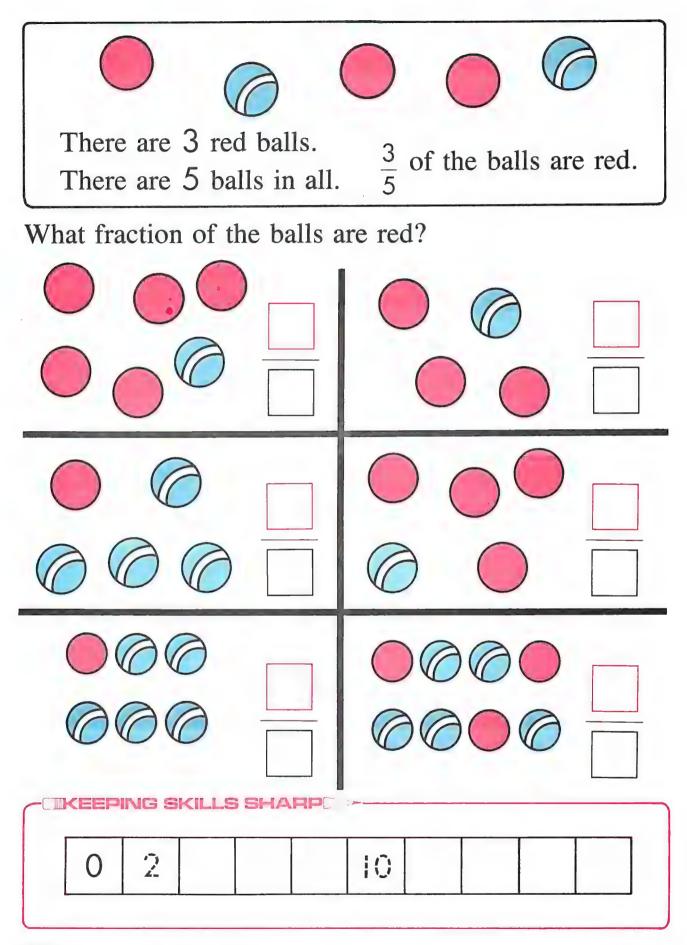
What fraction of the blocks are red?
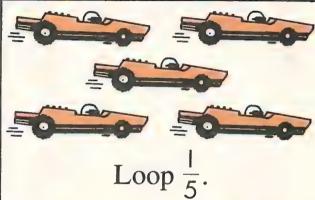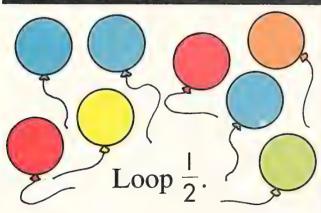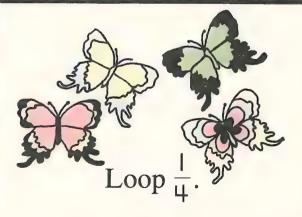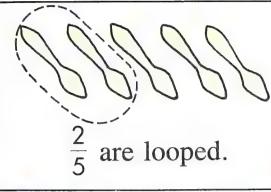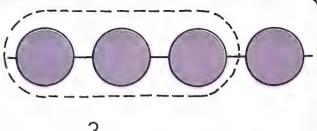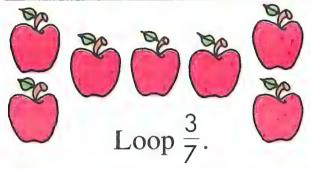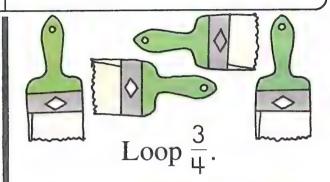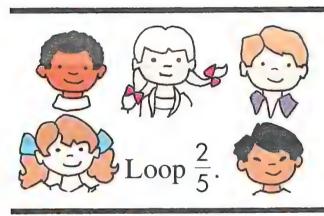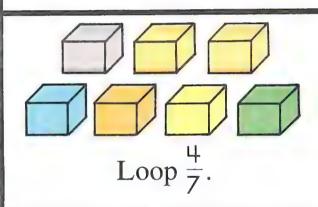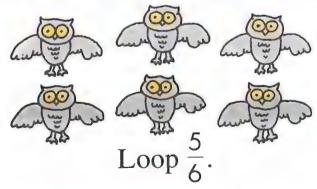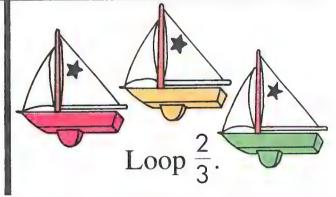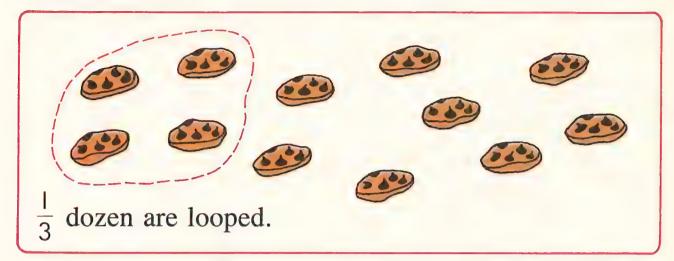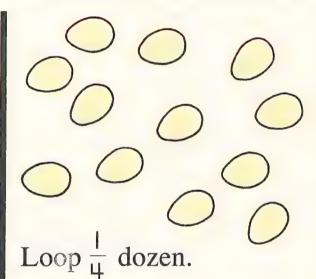
There are **3** red balls.
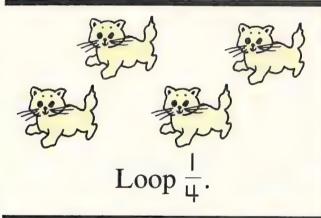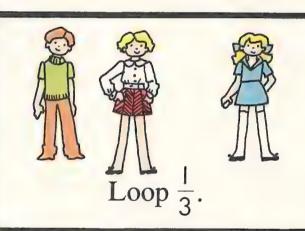
There are **5** balls in all. $\frac{3}{5}$ of the balls are red.

What fraction of the balls are red?

$\frac{1}{3}$ are looped.

$\frac{1}{2}$ are looped.

Loop $\frac{1}{2}$.

Loop $\frac{1}{5}$.

Loop $\frac{1}{4}$.

Loop $\frac{1}{3}$.

Loop $\frac{1}{2}$.

Loop $\frac{1}{4}$.

$\frac{2}{5}$ are looped.

$\frac{3}{4}$ are looped.

Loop $\frac{3}{7}$.

Loop $\frac{3}{4}$.

Loop $\frac{2}{5}$.

Loop $\frac{4}{7}$.

Loop $\frac{5}{6}$.

Loop $\frac{2}{3}$.

54	53	65	73	92	28
+22	+15	+38	+69	+28	+92

Fractions

I dozen = 12

$\frac{1}{3}$ dozen are looped.

Loop $\frac{1}{2}$ dozen.

Loop $\frac{1}{4}$ dozen.

Loop $\frac{1}{3}$ dozen.

Loop $\frac{2}{3}$ dozen.
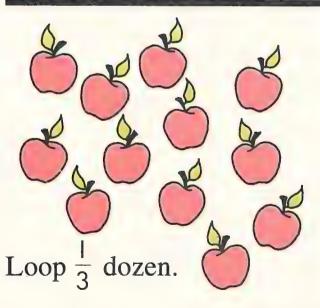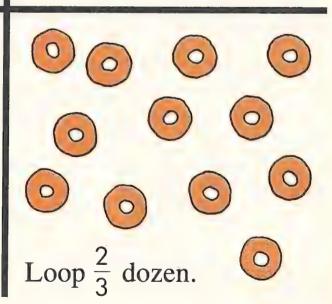
Draw the hands.

Tell the time.

This is the time I get up in the morning.

_____

This is the time school starts.

_____

Recess time

_____

Lunch time

_____

School ends

_____

Bed time

_____
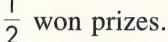
Name _____

Answer each question.

8 children at a party.
$\frac{1}{2}$ won prizes.
How many children won prizes? ☐
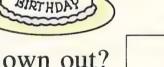
6 candles on the cake.
Blew out $\frac{5}{6}$ of them.
How many candles were blown out? ☐
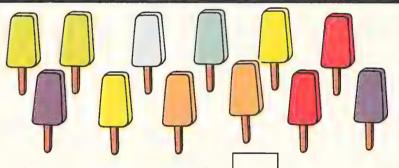
12 ice-cream bars.
Ate $\frac{2}{3}$ of them.
How many ice-cream bars were eaten? ☐
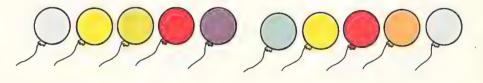
10 balloons.
$\frac{3}{5}$ burst.
How many balloons burst? ☐
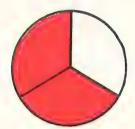
Answer the questions.

Write equations.

A second grade class has
26 boys and 19 girls.
How many children? _____

_____

Jimmy had 43¢.
He found 15¢ more.
How much money? _____

_____

A carpenter has 36 nails.
He needs 57 more. How
many nails in all? _____

_____

Jill had 19¢. She lost 9¢.
How much is left? _____

_____

Al had 38 marbles.
He lost 11. How
many are left? _____

_____

Judy spent 27¢.
She spent 35¢ more.
How much spent? _____

_____

There are 38 dogs and 47
cats in a pet show. How
many cats and dogs? _____

_____

Comic books cost 19¢ each.
How much for 2? _____

_____

Name_____

CHECKUP
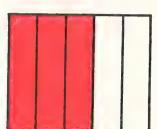
What fraction is shaded red?

Complete.
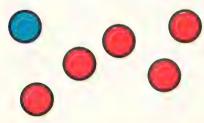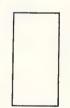
quarter past ☐   quarter _____ ☐
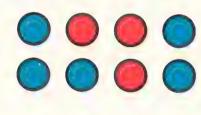
What fraction of the marbles are red?

Loop $\frac{1}{4}$.   Loop $\frac{2}{5}$.

Project
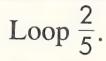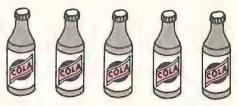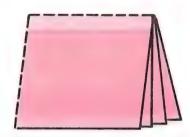
1. Fold a piece of paper like this.
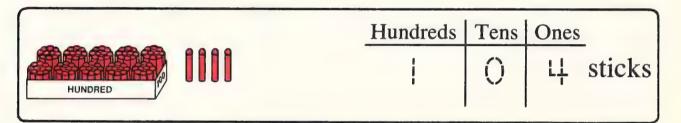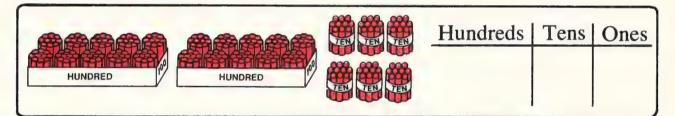
2. Fold it again.

3. Unfold and shade $\frac{3}{4}$ of it.

4. Fold a piece of paper to get 8 equal parts.

5. Unfold and shade $\frac{3}{8}$ of the paper.

6. See what other fractions you can picture by folding and shading.

Project—fractions

10 bundles of ten sticks make one hundred sticks.

10 tens

1 hundred

Fill in the tables.

Hundreds	Tens	Ones	
1	0	4	sticks

Hundreds	Tens	Ones

Hundreds	Tens	Ones

Hundreds	Tens	Ones

Place value—hundreds

(two hundred thirty-three) 233
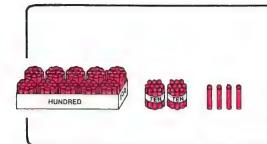
TABLE FORM		
Hundreds	Tens	Ones
1	2	4

124

Complete.

TABLE FORM		
Hundreds	Tens	Ones
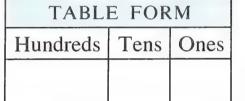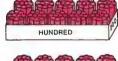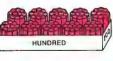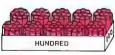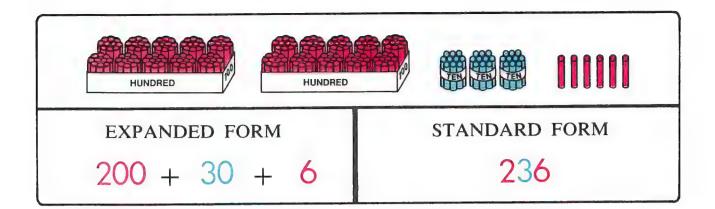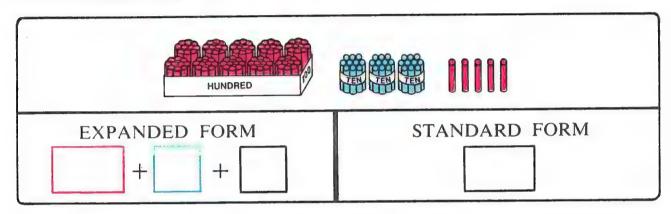
STANDARD FORM

TABLE FORM		
Hundreds	Tens	Ones

STANDARD FORM

TABLE FORM		
Hundreds	Tens	Ones

STANDARD FORM

Standard form—hundreds

Fill in each ☐.

$\boxed{300}$ sticks

☐ sticks

☐ sticks

☐ sticks

☐ sticks

Hundreds

EXPANDED FORM	**STANDARD FORM**
200 + 30 + 6	236

Fill in each box.

EXPANDED FORM	**STANDARD FORM**
☐ + ☐ + ☐	☐

EXPANDED FORM	STANDARD FORM
200 + 30 + 4	234
300 + 50 + 6	☐
400 + 70 + 8	☐
☐ + ☐ + ☐	726
☐ + ☐ + ☐	684

Expanded form—hundreds

Name_____

Count by tens.

10, 20, 30, 40, ____, ____, ____, ____, ____,

100, 110, 120, ____, ____, ____, ____, ____,

180, ____, ____, 210, ____, ____, ____, 250,

____, ____, ____, ____, ____, 310, ____, ____,

____, ____, ____, 370, ____, ____, ____

What number is 10 more?

80, ____

90, ____

370, ____

560, ____

600, ____

690, ____

What number is 10 less?

____, 100

____, 400

____, 510

____, 780

____, 900

____, 910

< or > ?

Fill in each ◯.

27 ◯< 31
is less than

15 ◯ 75

75 ◯ 15

173 ◯ 273

41 ◯> 6
is greater than

533 ◯ 733

480 ◯ 408

673 ◯ 653
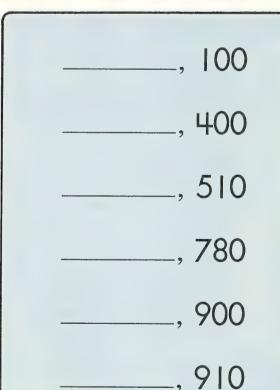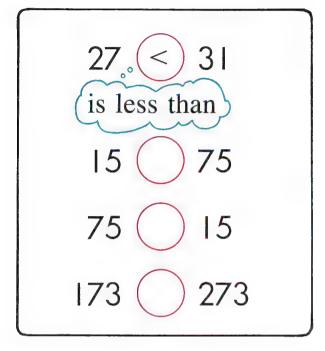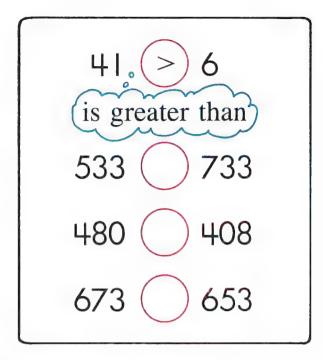
What number is
100 greater?

500, _____

624, _____

760, _____

827, _____

342, _____

What number is
100 less?

200, _____

342, _____

829, _____

534, _____

206, _____

☐ ¢

☐ ¢

Less than, greater than

Name_____

Add.

7 +5	8 +9	3 +6	5 +6	8 +4	9 +3

6 +6	8 +5	9 +6	4 +3	5 +5	8 +2

8 +8	8 +7	7 +7	9 +8	6 +7	9 +9

Subtract.

17 -9	15 -9	14 -7	13 -9	14 -6	11 -8

13 -8	15 -7	18 -9	17 -8	13 -7	12 -5

16 -8	15 -6	14 -5	13 -5	12 -9	11 -4

Ready or not?
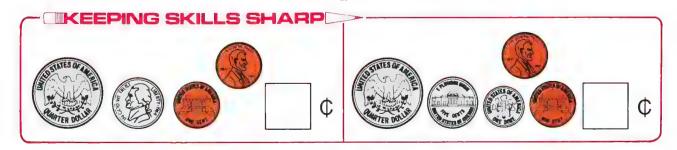
Project

Here are three **digits**:

2, 7, 5
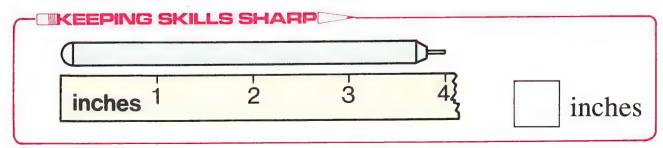
You can use these digits to build
this three-place number:

725

or you can build this three-place number:
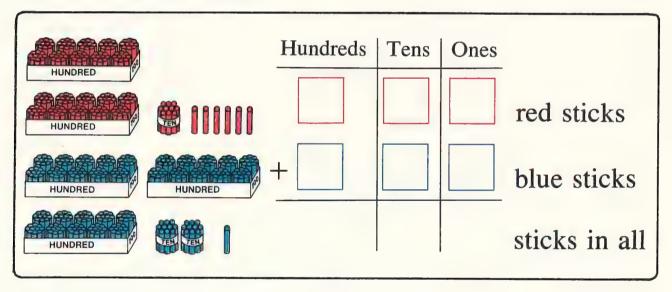
257

1. How many other three-place numbers
   can you build with 2, 7, and 5? _____

2. What is the greatest number you built? _____

3. How many three-place numbers can
   you build with these digits?   2, 7, 7 _____

4. What is the greatest number you built? _____

5. What is the greatest three-place
   number of all? _____

KEEPING SKILLS SHARP

inches 1   2   3   4

☐ inches

Hundreds	Tens	Ones	
2	1	4	red sticks
+ 1	2	3	blue sticks
3	3	7	sticks in all

Complete the records.

Hundreds	Tens	Ones	
□	□	□	red sticks
+ □	□	□	blue sticks
			sticks in all

H	T	O
7	1	0
+	3	6

H	T	O
4	5	3
+1	2	6

H	T	O
6	0	6
+3	4	1

TABLE FORM			STANDARD FORM		
H	T	O			
1	1	6	1	1	6
+2	4	0	+2	4	0
3	5	6	3	5	6

↑
sum

Add.

317	932	817	314	435
+511	+65	+160	+463	+224

961	314	803	649	621
+27	+550	+172	+130	+306

726	583	240	433	226
+43	+213	+58	+226	+433

KEEPING SKILLS SHARP
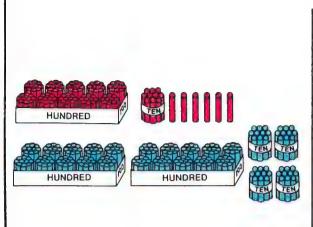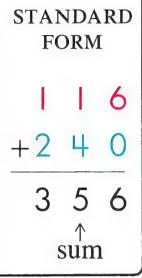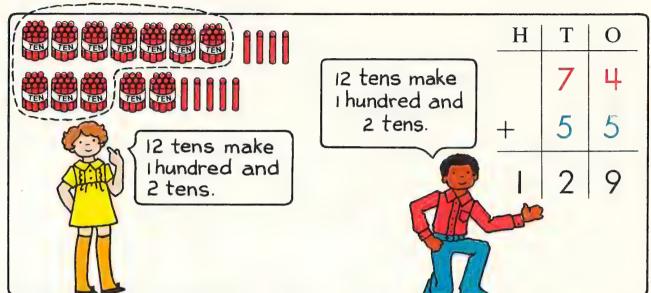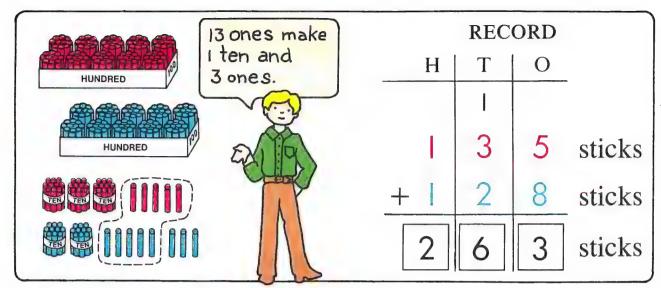
quarter past _____   quarter to _____

Complete the records.

12 tens make 1 hundred and 2 tens.

12 tens make 1 hundred and 2 tens.

H	T	O
	7	4
+	5	5
1	2	9

H	T	O		H	T	O		H	T	O		H	T	O
	7	7			5	6			8	3			9	4
+	3	2	+		9	1	+		9	1	+		6	2

Add.

83	96	87	94	63	84
+21	+42	+71	+83	+62	+56

74	85	50	86	62	67
+63	+52	+95	+72	+67	+62

Regrouping tens to hundreds

(two hundred forty-three) **243**

13 ones make 1 ten and 3 ones.

RECORD

H	T	O	
	1		
1	3	5	sticks
+ 1	2	8	sticks
2	6	3	sticks

Add.

58	56	92	36	57	83
+23	+35	+9	+21	+29	+26

86	45	99	79	66	75
+45	+86	+48	+49	+58	+39

79	53	68	71	78	68
+46	+75	+39	+59	+78	+47

543	613	416	702	537	321
+315	+308	+259	+158	+248	+469

KEEPING SKILLS SHARP

0	5						35		

Addition practice

H	T	O	
2	3	5	sticks in all
− 1	2	3	sticks taken away
1	1	2	sticks left

Complete the record.

H	T	O	
2	6	3	sticks in all
− 1	2	1	sticks taken away
			sticks left

Cross off. Complete the record.
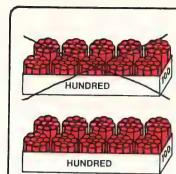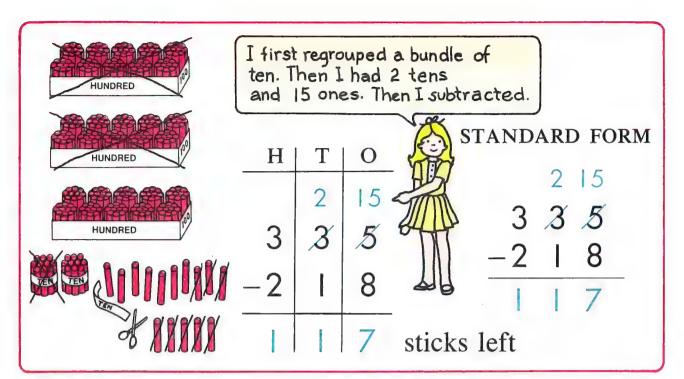
H	T	O	
3	9	4	sticks in all
− 2	6	3	sticks taken away
			sticks left

Complete the records.

H	T	O
2	3	4
− $\square$	$\square$	$\square$
$\square$	$\square$	$\square$

H	T	O
$\square$	$\square$	$\square$
− $\square$	$\square$	$\square$
$\square$	$\square$	$\square$

H	T	O
6	3	9
− 1	1	8

H	T	O
9	8	7
− 3	4	5

H	T	O
5	7	2
− 3	7	0

headline...

NUMBER NEWS

36 + 27 = 63

Tell a story.

Name_____

Subtract.

397	463	985	582	748
−171	−152	−625	−260	−314

275	463	296	595	868
−231	−453	−112	−344	−235

758	629	546	937	867
−132	−305	−214	−502	−324

659	483	756	944	867
−26	−132	−213	−602	−425

I first regrouped a bundle of ten. Then I had 2 tens and 15 ones. Then I subtracted.

H	T	O
	2	15
3	3	5
−2	1	8
1	1	7	sticks left

STANDARD FORM

$$\begin{array}{r} {\scriptstyle 2\ 15} \\ 3\ 3\ 5 \\ -2\ 1\ 8 \\ \hline 1\ 1\ 7 \end{array}$$

Subtract.

86	95	53	74	68	57
−29	−38	−15	−28	−39	−19

72	80	59	93	65	81
−57	−46	−27	−38	−34	−29

195	253	374	425	886	342
−38	−29	−38	−16	−39	−28

753	841	653	590	973	836
−225	−428	−219	−174	−357	−319

Subtraction practice
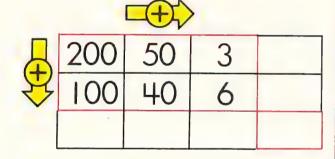
EXPANDED FORM

200	30	5	235
100	50	4	154
300	80	9	389
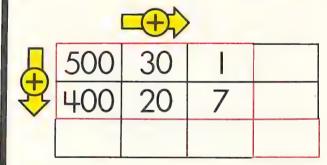
$$200 + 30 + 5 = 235$$
$$100 + 50 + 4 = 154$$
$$300 + 80 + 9 = 389$$

Complete.

400	50	6	
300	30	2	

400	20	7	
300	40	1	

200	50	3	
100	40	6	

500	30	1	
400	20	7	

$$300 + 50 + 2 = \boxed{}$$
$$400 + 20 + 7 = \boxed{}$$
$$\boxed{} + \boxed{} + \boxed{} = \boxed{}$$

$$500 + 80 + 6 = \boxed{}$$
$$300 + 10 + 2 = \boxed{}$$
$$\boxed{} + \boxed{} + \boxed{} = \boxed{}$$

Addition—expanded form

Complete these addition-subtraction boxes.

+ →			
300	50	2	352
100	20	1	
200			

+ →			
700	60	3	
200	40	1	

+ →			
900	90	9	
300	50	8	

+ →			
400	30	8	
400	20	1	

+ →			
500	30	7	
200	10	4	

+ →			
900	80	4	
300	80	1	

+ →			
700	40	4	
300	20	4	

+ →			
800	60	7	
300	20	4	

KEEPING SKILLS SHARP

0	2						14	

Subtraction—expanded form

Name _____

Add.

621 + 238 = _____   47 + 36 = _____

$$\begin{array}{r} 621 \\ +\ 238 \\ \hline \end{array}$$ $$\begin{array}{r} 47 \\ +\ 36 \\ \hline \end{array}$$

271 + 517 = _____   43 + 29 = _____

Subtract.

834 - 221 = _____   73 - 48 = _____

$$\begin{array}{r} 834 \\ -\ 221 \\ \hline \end{array}$$ $$\begin{array}{r} 73 \\ -\ 48 \\ \hline \end{array}$$

251 - 131 = _____   56 - 29 = _____

Who am I?

When you add me to 73, you get 86.

☐
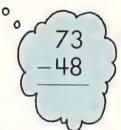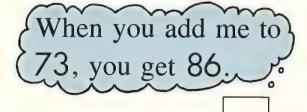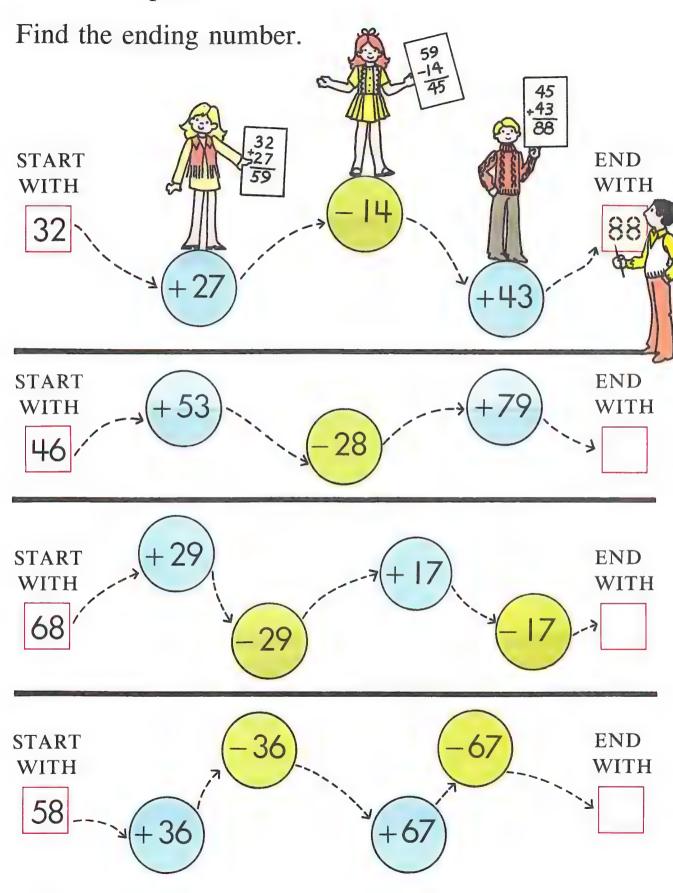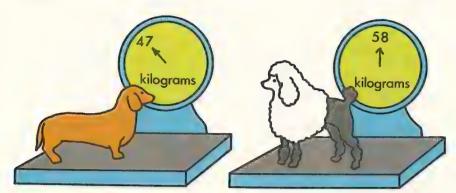
When you subtract me from 21, you get 14.

☐

Follow the path.

Find the ending number.

$$\begin{array}{r} 59 \\ -14 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 45 \\ +43 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 32 \\ +27 \\ \hline 59 \end{array}$$

START WITH
32

$+27$

-14

$+43$

END WITH
88

START WITH
46

$+53$

-28

$+79$

END WITH ☐

START WITH
68

$+29$

-29

$+17$

-17

END WITH ☐

START WITH
58

$+36$

-36

$+67$

-67

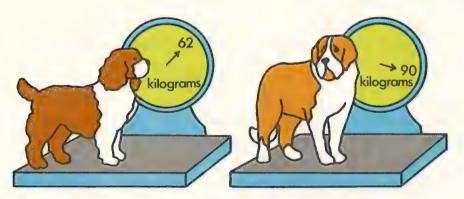END WITH ☐

Practice

Answer each question.

work space

How much would both dogs weigh?_____

work space
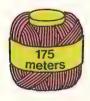
How much heavier is the larger dog?_____

work space

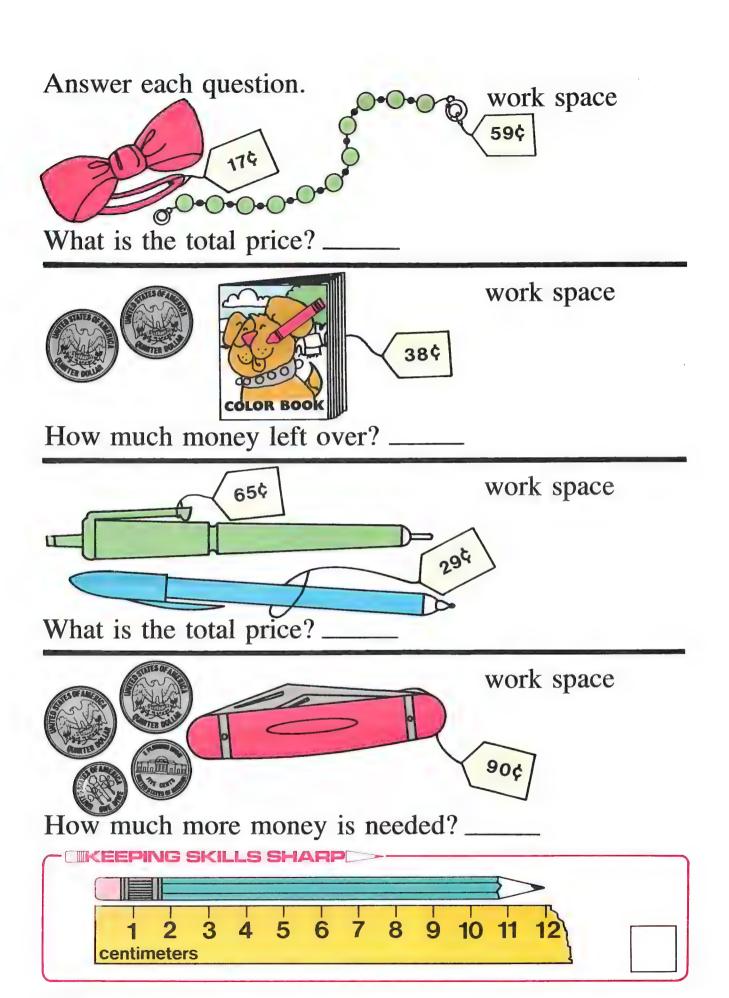How much more red string?_____

work space

How much string all together?_____

Answer each question.

work space

17¢

59¢

What is the total price? _____

---

work space

COLOR BOOK

38¢

How much money left over? _____

---

work space

65¢

29¢

What is the total price? _____

---

work space

90¢

How much more money is needed? _____

KEEPING SKILLS SHARP

1 2 3 4 5 6 7 8 9 10 11 12
centimeters

Spending money

CHECKUP

Give the number that is 100 greater.

Give the number that is 100 less.

200, _____ 852, _____   _____, 492 _____, 613

326, _____ 184, _____   _____, 507 _____, 385

< or >?

673 ◯ 653   480 ◯ 408   201 ◯ 210

Add.

341	573	105	462	850	395
+202	+114	+34	+124	+106	+203

848	286	307	945	312	714
+26	+308	+469	+39	+69	+274

Subtract.

957	859	496	841	584	975
−123	−327	−57	−320	−470	−752

How do you come to school?
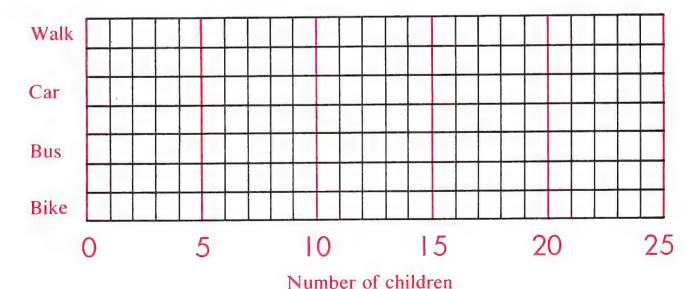
Find out how the children in your class come to school. Keep a tally on this chart.

Walk	Car	Bus	Bike

Fill in this bar graph.
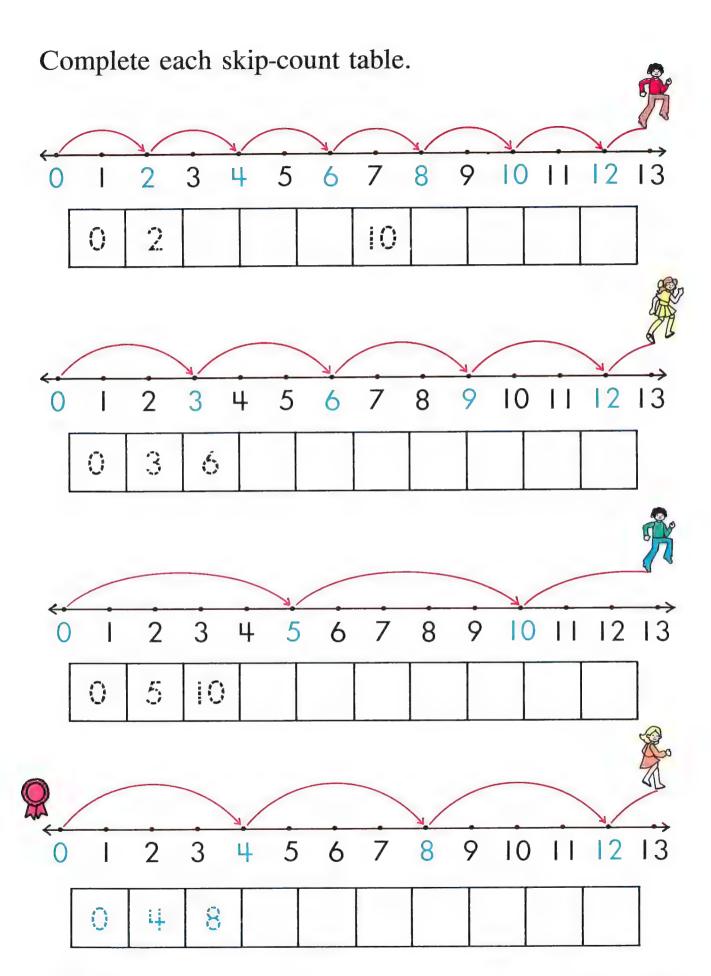
Walk					
Car					
Bus					
Bike					

0   5   10   15   20   25

Number of children

Graphing

Color the boxes.

Count by 2's.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Count by 3's.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27			

Count by 5's.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36				

Complete each skip-count table.

0	2				10				

0	3	6							

0	5	10							

0	4	8							

Skip counting

Fill in each □.

1   has $\boxed{2}$ ears.

2   have $\boxed{4}$ ears.

3   have   □   ears.

4   have   □   ears.

5   have   □   ears.

6   have   □   ears.

7   have   □   ears.

8   have   □   ears.

9   have   □   ears.

3 sets of 2

6 dots in all.

MULTIPLICATION EQUATION

$$3 \times 2 = 6$$

We say three times two equals six.

Complete each equation.

2 sets of 2

$$2 \times 2 = \boxed{}$$

0 sets of 2

$$0 \times 2 = \boxed{0}$$

5 sets of 2

$$5 \times 2 = \boxed{}$$

4 sets of 2

$$4 \times 2 = \boxed{}$$

9 sets of 2

$$9 \times 2 = \boxed{}$$

8 sets of 2

$$8 \times 2 = \boxed{}$$

62	58	73	94	82	70
−21	−34	−46	−77	−78	−55

Name_____

Each jump is **2** units long.

5 jumps of 2

0 1 2 3 4 5 6 7 8 9 10
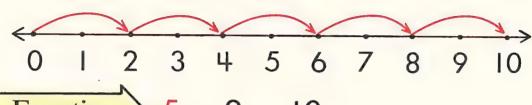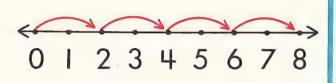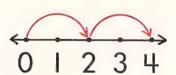
Equation ⟹ **5** × 2 = 10

We say five times two equals ten.

Complete each equation.

0 1 2 3 4 5 6 7 8

4 × 2 = ☐

0 1 2 3 4

2 × 2 = ☐

0 1 2

1 × 2 = ☐

0 1 2 3 4 5 6

3 × 2 = ☐

0 2 4 6 8 10 12

6 × 2 = ☐

0 2 4 6 8 10 12 14

7 × 2 = ☐

$$2 \times 4 = 8$$
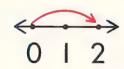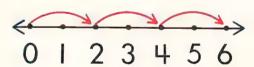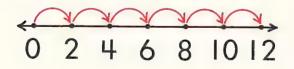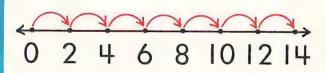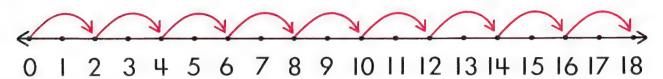
factor   factor   product

Factor times **factor** equals **product**

Give the product or factor.
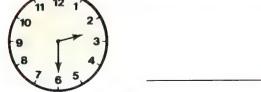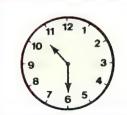
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

$1 \times 2 = \boxed{}$ $2 \times 2 = \boxed{}$ $6 \times 2 = \boxed{}$

$4 \times 2 = \boxed{}$ $7 \times 2 = \boxed{}$ $9 \times 2 = \boxed{}$

$5 \times 2 = \boxed{}$ $3 \times 2 = \boxed{}$ $0 \times 2 = \boxed{0}$

$\boxed{} \times 2 = 4$ $\boxed{} \times 2 = 6$ $\boxed{} \times 2 = 10$

$\boxed{} \times 2 = 8$ $\boxed{} \times 2 = 0$ $\boxed{} \times 2 = 12$

$\boxed{} \times 2 = 14$ $\boxed{} \times 2 = 18$ $\boxed{} \times 2 = 16$

KEEPING SKILLS SHARP

_____   _____

Product, factors

1 CHEW-EE has $\boxed{5}$ ▱ .

2 CHEW-EE have $\square$ ▱ .

3 CHEW-EE have $\square$ ▱ .

4 CHEW-EE have $\square$ ▱ .

5 CHEW-EE have $\square$ ▱ .

6 CHEW-EE have $\square$ ▱ .

7 CHEW-EE have $\square$ ▱ .

8 CHEW-EE have $\square$ ▱ .

9 CHEW-EE have $\square$ ▱ .

Multiples of 5 (two hundred sixty-three) **263**

Complete each equation.

15 dots in all.

$3 \times 5 = \boxed{}$

$1 \times 5 = \boxed{}$

$2 \times 5 = \boxed{}$

$5 \times 5 = \boxed{}$

$6 \times 5 = \boxed{}$

$4 \times 5 = \boxed{}$

$9 \times 5 = \boxed{}$

$0 \times 5 = \boxed{}$

KEEPING SKILLS SHARP

326	743	536	497	534	271
+243	+152	+318	+109	+326	+109

Multiplying by 5

Each jump is 5 units long.

| 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
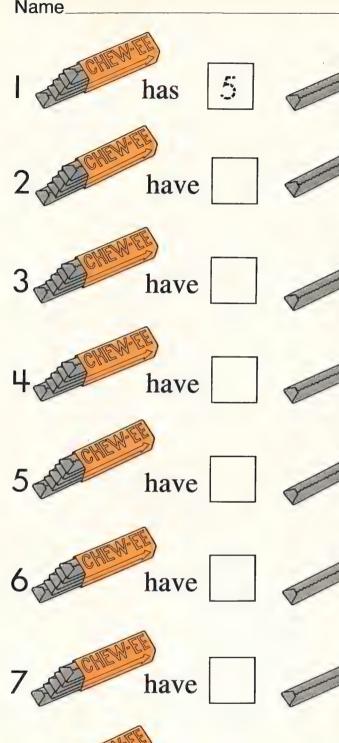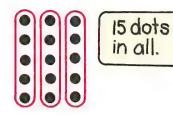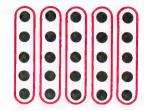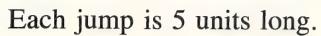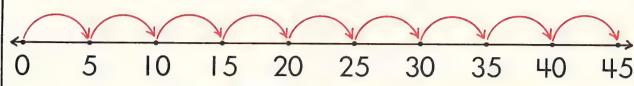
You can use this number line picture to complete the equations below.

Complete each equation.

$4 \times 5 = \square$ $2 \times 5 = \square$

$3 \times 5 = \square$ $0 \times 5 = \square$

$1 \times 5 = \square$ $5 \times 5 = \square$

$7 \times 5 = \square$ $9 \times 5 = \square$

$8 \times 5 = \square$ $6 \times 5 = \square$

$$5 \leftarrow \text{factor}$$
$$\times 3 \leftarrow \text{factor}$$
$$\overline{15} \leftarrow \text{product}$$

$$2 \leftarrow \text{factor}$$
$$\times 6 \leftarrow \text{factor}$$
$$\overline{12} \leftarrow \text{product}$$

Multiply.

3	6	5	4	2	4
×5	×5	×2	×5	×2	×2

8	7	3	6	9	8
×5	×5	×2	×2	×5	×2

0	1	8	1	9	6
×5	×5	×5	×2	×2	×5

Complete each equation.

$$3 \times \boxed{} = 6 \qquad 5 \times \boxed{} = 15 \qquad 4 \times \boxed{} = 20$$

$$6 \times \boxed{} = 12 \qquad 7 \times \boxed{} = 35 \qquad 9 \times \boxed{} = 18$$

KEEPING SKILLS SHARP

75	80	86	72	63	91
−18	−29	−35	−50	−47	−65

Multiplication practice

Name_____

1 🍎 has ☐3☐ 🍎 .

2 🍎 have ☐ 🍎 .

3 🍎 have ☐ 🍎 .

4 🍎 have ☐ 🍎 .

5 🍎 have ☐ 🍎 .

6 🍎 have ☐ 🍎 .

7 🍎 have ☐ 🍎 .

8 🍎 have ☐ 🍎 .

9 🍎 have ☐ 🍎 .

Multiples of 3

(two hundred sixty-seven) **267**

4 sets of 3   12 dots in all.   EQUATION

$4 \times 3 = 12$

Complete each equation.

$3 \times 3 = \boxed{}$

$2 \times 3 = \boxed{}$

$0 \times 3 = \boxed{}$

$6 \times 3 = \boxed{}$

$5 \times 3 = \boxed{}$
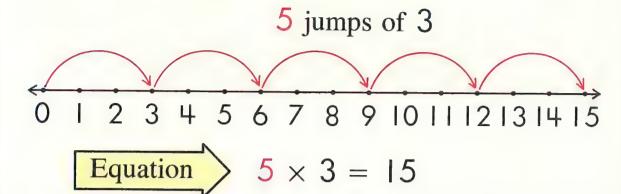
$7 \times 3 = \boxed{}$

KEEPING SKILLS SHARP

62	53	74	67	83	48
+38	+19	+69	+74	+96	+83

Multiplying by 3

Each jump is 3 units long.

5 jumps of 3

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Equation $\Rightarrow$ $5 \times 3 = 15$

Complete each equation.

0 1 2 3 4 5 6 7 8 9

$3 \times 3 = \boxed{}$

0 1 2 3

$1 \times 3 = \boxed{}$

0 3 6 9 12

$4 \times 3 = \boxed{}$

0 3 6 9 12 15 18

$6 \times 3 = \boxed{}$

0 3 6 9 12 15 18 21 24 27

$9 \times 3 = \boxed{}$

0 3 6 9 12 15 18 21 24
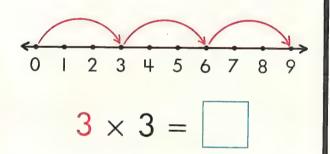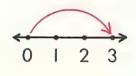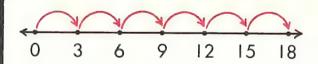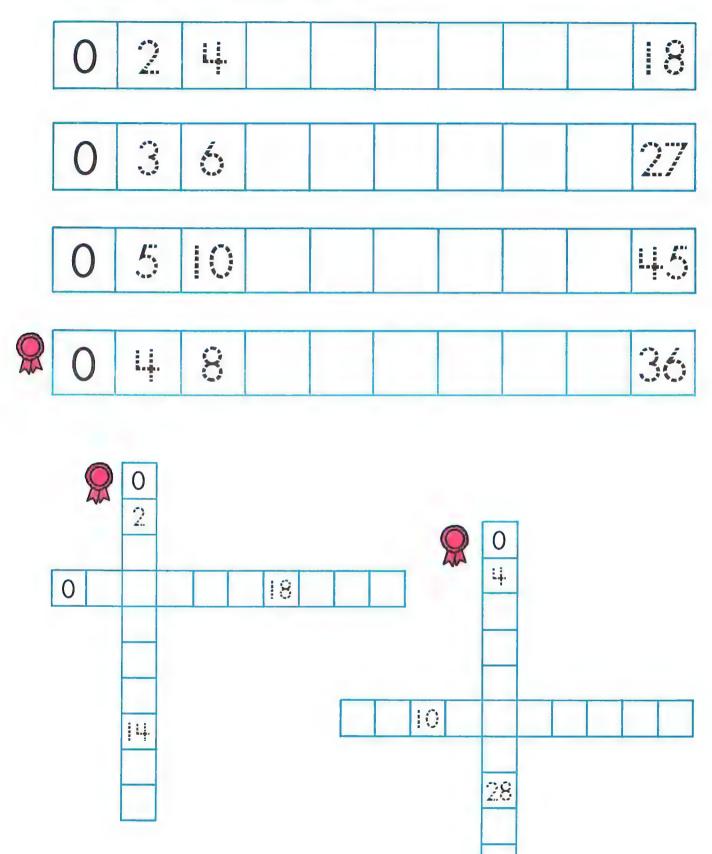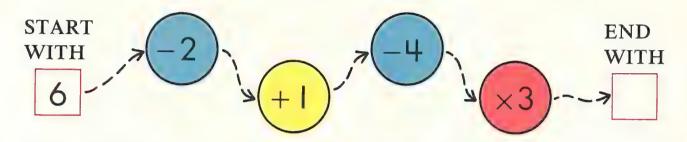
$8 \times 3 = \boxed{}$
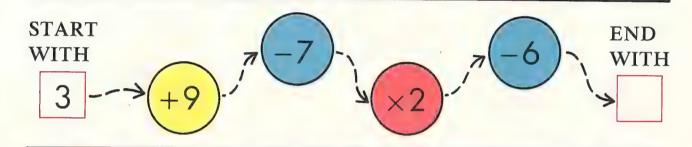
Fill in these skip-count tables.
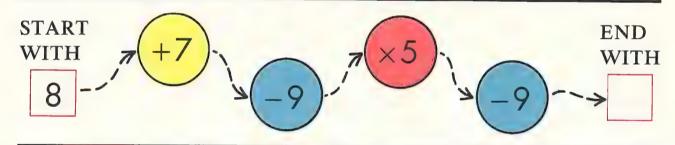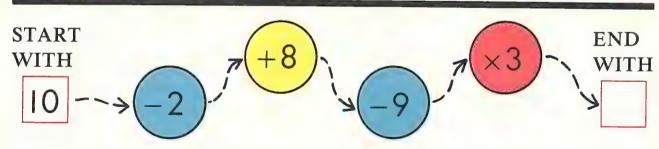
0	2	4							18

0	3	6							27

0	5	10							45

0	4	8							36

Skip counting

Name_____

Follow the path.

Find the ending number.

START WITH [6] → −2 → +1 → −4 → ×3 → END WITH [ ]

START WITH [3] → +9 → −7 → ×2 → −6 → END WITH [ ]

START WITH [8] → +7 → −9 → ×5 → −9 → END WITH [ ]

START WITH [10] → −2 → +8 → −9 → ×3 → END WITH [ ]

KEEPING SKILLS SHARP

quarter past _____

_____

Multiply.

2 ×2	9 ×2	0 ×2	3 ×2	5 ×3	8 ×2
1 ×2	2 ×5	1 ×3	3 ×3	7 ×2	4 ×3
4 ×5	6 ×3	2 ×2	7 ×5	7 ×3	1 ×5
7 ×3	3 ×5	8 ×3	5 ×5	4 ×2	6 ×5
5 ×2	0 ×5	2 ×3	9 ×5	8 ×5	6 ×2
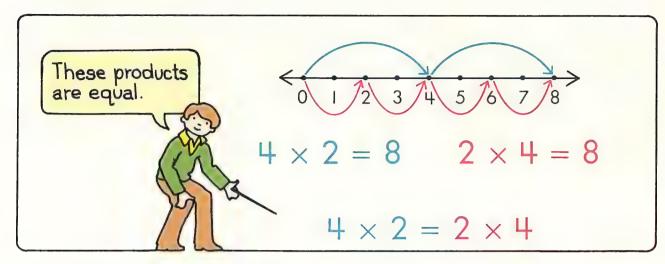
KEEPING SKILLS SHARP

258 −132	464 −220	356 −124	542 −237	843 −338	960 −238

Multiplication

These products are equal.

$$4 \times 2 = 8 \qquad 2 \times 4 = 8$$

$$4 \times 2 = 2 \times 4$$

Complete each equation.

$3 \times 2 = \boxed{}$

$2 \times 3 = \boxed{}$

$4 \times 3 = \boxed{}$

$3 \times 4 = \boxed{}$

$6 \times 3 = \boxed{}$

$3 \times 6 = \boxed{}$

$7 \times 3 = \boxed{}$

$3 \times 7 = \boxed{}$

$8 \times 5 = \boxed{}$

$5 \times 8 = \boxed{}$

$9 \times 3 = \boxed{}$

$3 \times 9 = \boxed{}$

$7 \times 5 = \boxed{}$

$5 \times 7 = \boxed{}$

$9 \times 2 = \boxed{}$

$2 \times 9 = \boxed{}$

Multiply.

3 ×2	2 ×3	4 ×5	5 ×4	2 ×9	9 ×2
7 ×5	5 ×7	6 ×3	3 ×6	0 ×3	3 ×0
1 ×5	5 ×1	9 ×4	4 ×9	7 ×2	2 ×7
8 ×5	5 ×8	6 ×3	3 ×6	9 ×3	3 ×9
8 ×2	2 ×8	0 ×5	5 ×0	8 ×3	3 ×8

274 (two hundred seventy-four)

Multiplication practice

Name_____

Fill in each □.

6 cost □ ¢.

2 cost □ ¢.

5 cost □ ¢.

3 cost □ ¢.

7 cost □ ¢.

3 cost □ ¢.

5 cost □ ¢.

2 cost □ ¢.

Complete.

If I ✏️ costs 5¢ then 6 ✏️
cost ☐ ¢.

If I 🐷 costs 8¢ then 3 🐷
cost ☐ ¢.

If I 🍎 costs 9¢ then 2 🍎
cost ☐ ¢.

If I 🍦 costs 8¢ then 5 🍦
cost ☐ ¢.

If I 🍭 costs 2¢ then 6 🍭
cost ☐ ¢.

If I 🍬 costs 3¢ then 8 🍬
cost ☐ ¢.

headline...
NUMBER NEWS
58 + 27 = 85

Tell a story.

Name _____

A	I	K	L	S
7	9	24	10	40
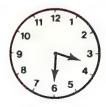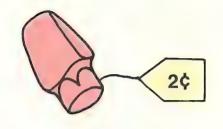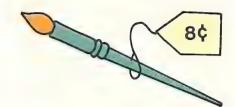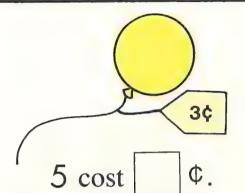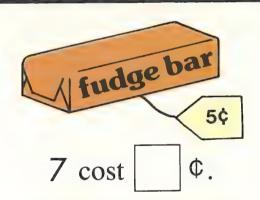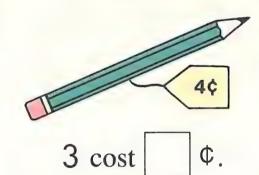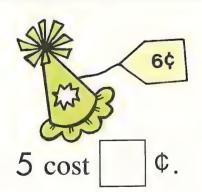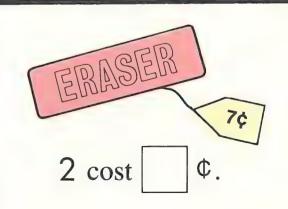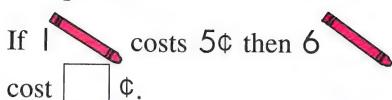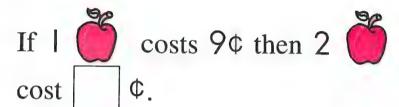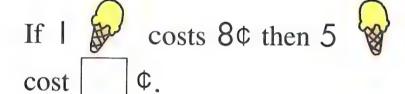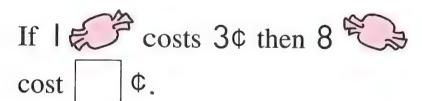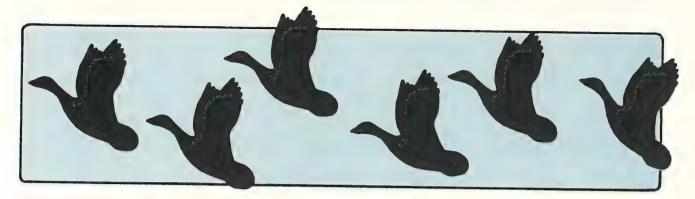
F	T	O	R	W
25	12	8	30	18

Why do geese fly south in the winter?

Fill in each □ to find the answer.

3
×3
□

2
×6
□

4
+5
□

8
×5
□

3
×4
□

17
−9
□

4
×2
□

5
×5
□

0
+7
□

6
×5
□

7
+5
□

5
+3
□

2
×9
□

15
−8
□

2
×5
□

8
×3
□
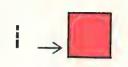
Use the code to discover the message.

3	2
×3	×4

3	3	10
×4	×6	−2

3	8
×8	×2

4	30	9
×6	+6	×2

5	6	5
+4	×2	×5

30	20
+2	+4

4	8	6	12
×1	+4	×3	+16

headline...

✳NUMBER NEWS✳

84−32=52

Tell a story.

Give the number of □'s.
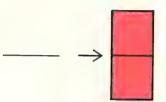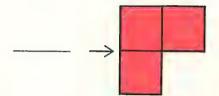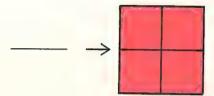
Odd numbers   Even numbers

| → [1]

—— → [2]

—— → [3   —— → [4]

—— → [5]   —— → [6]

—— → [7]   —— → [8]
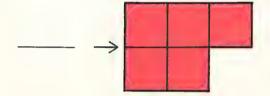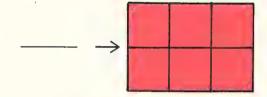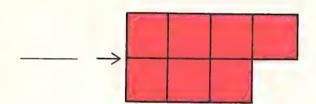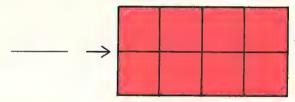
Draw ○'s around numerals for even numbers.

Draw □'s around numerals for odd numbers.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
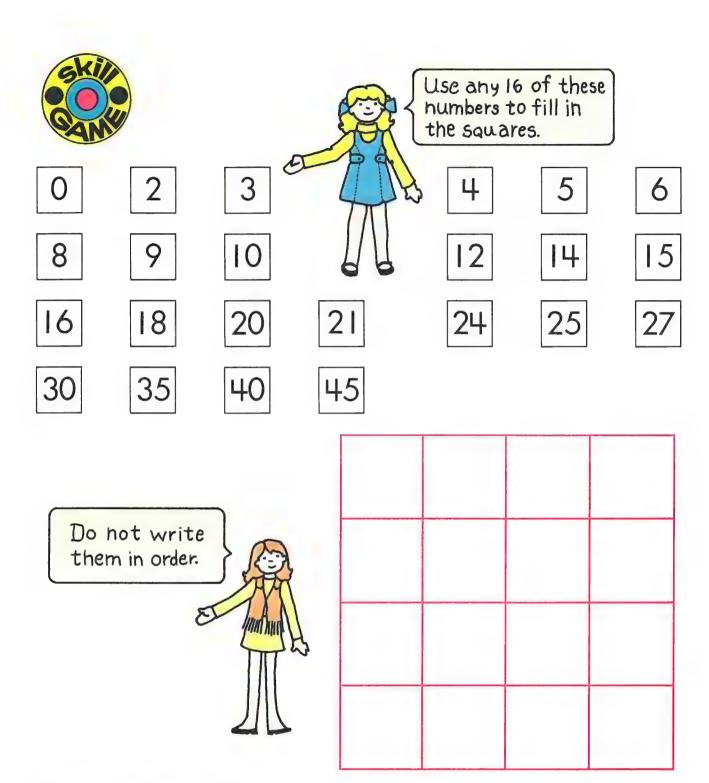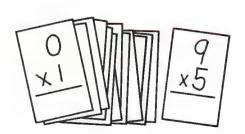
Odd and even numbers   (two hundred seventy-nine) **279**

Answer each question.

Write an equation.

	ANSWER	EQUATION
A truck has 6 wheels. How many wheels do 2 trucks have?	□	_____
Mary has 2 small dolls and 3 large dolls. How many dolls does she have in all?	□	_____
Each horse has 2 ears. How many ears do 4 horses have?	□	_____
Jim had 9 pennies. He spent 5 of them. How many pennies did he have left?	□	_____

380	453	742	887	567	650
−260	−216	−515	−329	−319	−248

Answer the question.

Write an equation.

Maria walks 8 blocks 2 times a day. How many blocks does Maria walk each day?

_____

Pete ran 3 miles a day for 7 days. How many miles did Pete run?

_____

The milkman left 2 gallons of milk at Mary's on 6 days. How many gallons of milk did he leave at Mary's?

_____

A carpenter needed 8 nails to fix each frame. He fixed 5 frames. How many nails did he need?

_____

A pilot reports 3 times each hour. The pilot flew for 6 hours. How many reports did she make?

_____

Use any 16 of these numbers to fill in the squares.

0	2	3		4	5	6
8	9	10		12	14	15
16	18	20	21	24	25	27
30	35	40	45			

Do not write them in order.

Your teacher will explain the game.

0
×1

9
×5

CHECKUP

Complete each equation.

$4 \times 3 = \boxed{}$

$4 \times 5 = \boxed{}$

$5 \times 2 = \boxed{}$

$8 \times 3 = \boxed{}$

0 1 2 3 4 5 6 7 8

$2 \times 3 = \boxed{}$

0 5 10 15 20 25 30 35

$7 \times 5 = \boxed{}$

Multiply.

8	0	7	8	6	6	9
×3	×5	×2	×3	×2	×5	×5
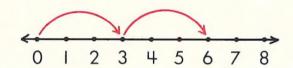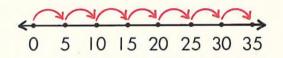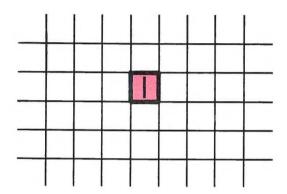
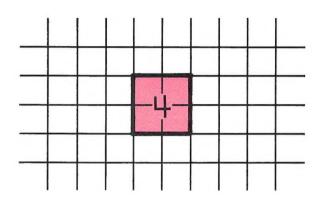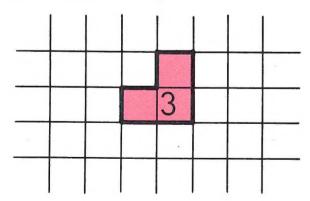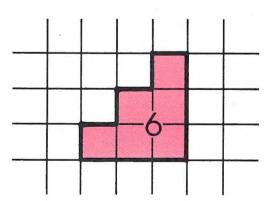| 7	9	8	6	2	5	5
×3	×3	×5	×3	×9	×7	×3

Here are the first two square numbers.

Get a piece of graph paper.

Find some more square numbers.

For what numbers can you draw step shapes like these?

89698/2